



REGISTERED AS A NEWSPAPER.

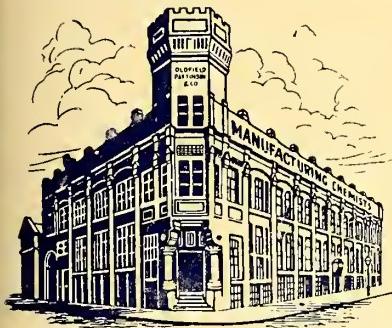
EPHONE: CENTRAL 3617
EGRAMS: "CHEMUS,"
NON, LONDON" (2 Words)
D. 2224.

PUBLISHED WEEKLY AT 42 CANNON ST., LONDON, E.C.4.

SUBSCRIPTION WITH
DIARY 20/- PER ANNUM
SINGLE COPIES 9d.

SEPTEMBER 9, 1922.

Vol. XCVII.



THE BEST HOUSE FOR ALL PHARMACEUTICAL PRODUCTS

Proprietors of the "Silver Churn" Dairy Preparations.

OLDFIELD, PATTINSON & Co.
TELEGRAMS: "OPIUM."
MANCHESTER.
TELEPHONES: City 984 & 4038.

Flexible Capsules and Perles *That Satisfy the Most Critical.*

Allen & Hanburys Ltd.—one of the pioneers in the manufacture of Flexible Capsules—are most favourably placed for supplying pharmacists and the trade. Our capsule makers are all skilled and experienced men, and are equipped with the best possible plant and machinery. All the ingredients used are of the 'A. & H.' standard of quality and purity.

Allen & Hanburys' Capsules
have these advantages:
UNIFORMITY OF SIZE.
REGULARITY OF SHAPE.
ACCURACY OF DOSAGE.
FLEXIBILITY.
SMOOTH AND BRILLIANT FINISH.
GOOD KEEPING QUALITIES.

Capsules made to any standard formula can be supplied on demand; special formula products manufactured on short notice. Supplied specially hard if required for export.

*The prices are the lowest consistent with the highest class products.
See Section II of Price List.*

ALLEN & HANBURYS Ltd., Bethnal Green, E. 2.

REDUCED PRICES.

VACUUM FLASKS

ONE
PINT
SIZE



ONE
PINT
SIZE

BLACK JAPANNED CASE.

With Aluminium Cup and Fittings, per doz. net	16/-
For Orders of Twelve Dozen, per doz. nc	15/6
For Orders for Original Case of 250, per doz. net	15/-

MAY, ROBERTS & Co., Ltd.

7-13 Clerkenwell Road, London, E.C.1,
and at Dublin, Liverpool and Plymouth.

SEPTEMBER

1922



Chemist's Price List

Glaxo and Glaxo Malted Food

	Retail Price.	Net Cost Per Dozen.	Special Net Terms per dozen for Glaxo or mixed parcels of Glaxo and Glaxo Malted Food.			
			£6 Orders.	£12 Orders.	£25 Orders.	£50 Cash with Order.
Standard	1/6, 5-oz.	14/5	14/1	13/8	13/4	13/-
Glaxo	2/6, 10-oz.	24/-	23/5	22/10	22/2	21/7
(Full-Cream)	4/6, 20-oz.	43/2	42/2	41/-	40/-	38/11
	7/6, 36-oz.	72/-	70/2	68/5	66/7	64/10
Glaxo Malted Food	1/3 tin	12/-	11/8	11/5	11/1	10/10
	2/4 "	22/5	21/10	21/3	20/9	20/2

Glaxo Malted Food to the net value of £5 will be supplied by the Authorised Glaxo Distributors at the £50 rate, and sent carriage paid if cash accompanies order. Special Net Terms for £25 and £50 orders apply only in England and Wales.

SPECIAL LINES	Retail Price.	Net Cost to Retailer.
Glaxo No. 1 (Half-Cream)	2/6 (10-oz.)	24/- per doz.
Glaxo No. 2 (Three-quarter Cream)	3/- (12-oz.)	28/10 ..

Glaxo Accessories

	Retail Price.	Net Cost.
Glaxo Complete Feeder	1/6 in carton	13/6 per doz.
" Spare Feeder	1/- "	9/- "
Premature Feeder (4-oz.)	1/6 "	13/6 "
Miniature Feeder (2-oz.)	1/9 ea. or 3/- pr.	13/6 ..
Glaxo Teats (7 kinds)	4d. each	3/- ..
Nursling Teat	9½d. ..	8/6 ..
Glaxo Valves	3d. ..	2/3 ..
Aluminium Food Measure	6d. ..	4/6 ..
Bottle Mop	4d. ..	3/- ..
Maternity Belt (2 sizes)	9/6 ..	7/6 each

Notes for Retailers.

Glaxo Miniature Feeders are not supplied in separate cartons, but in special boxes containing two Complete Feeders. Chemists can obtain these boxes direct, in cases of urgency, at 2/6 each, postage included, by sending a postal order to Glaxo Sales Department.

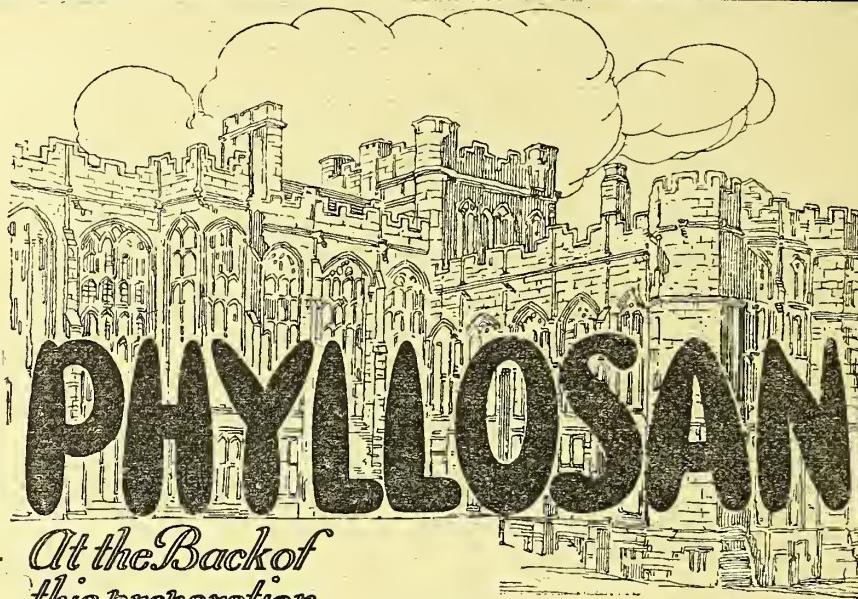
Glaxo Teats are supplied in the following seven varieties:— Ordinary (1 Medium

Square Hole), Fine Hole, 1, 3, or 5 Leechbite, Blind, and Premature.

Carriage is paid on Glaxo and Glaxo Malted Food, or on mixed parcels of these two lines, to the value of not less than £3 net; also on 3 dozen Complete or Spare Feeders, and on Glaxo Teats and Valves. The terms quoted for the Maternity Belt include postage.

GLAXO (SALES DEPARTMENT), 56 OSNABURGH STREET, LONDON, N.W. 1.

Proprietors: Joseph Nathan & Co., Limited, London and New Zealand.



*At the Back of
this preparation*

"An announcement which has been received with interest and enthusiasm by medical men the world over."—*The Prescriber.*

A POTENT REMEDY, RELIABLE, PROMPT AND HARMLESS, POSSESSING THE TESTIMONY OF A MASS OF RESPONSIBLE AND HIGHLY AUTHORITATIVE EVIDENCE OF EFFICIENCY.

Extensively prescribed by the Medical Profession all over the world, for the treatment of

**ANÆMIA, CHLOROSIS,
WASTING DISEASES,
and General Debility**

(of whatever origin).

Prepared under the directions, and from the formula of

Professor E. BUERGI, M.D.

(Director of Studies at the University of Berne, Switzerland).

The professional pride of a conscientious Chemist is as great as that of a highly efficient physician; precious life depends upon both.

**Efficient and reliable remedies produce recovery,
which means the good-will of your business.**

You can recommend Phyllosan with confidence—it will increase the good-will of your business, the satisfaction of your customer, and produce substantial profits. Supplies may be obtained through any Wholesale House in the British Isles.

*For Trade Terms, Literature, Clinical Reports,
etc., communications should be addressed to:*

**THE CHLOROPHYL & CHEMICAL CORPORATION, LTD.
26 Coventry Street, Piccadilly, London, W.1.**

Telephone: Regent 4363.

Telegrams: Filosan, Piccy, London.

EVERY POWDER and CREAM CUSTOMER WILL BUY

KemOlite

*Nature's own Radio-Active
Beauty Aid.*

In 30 minutes it makes the Complexion two to four Tones Lighter and the Skin much softer and smoother in texture.

"Kemolite" is advertised under Money-Back Guarantee of Satisfaction in *Daily Mail*, *Daily Mirror*, *Bystander*, *Tatler*, *Glasgow Record*, &c.



SALES AGENTS & DISTRIBUTORS

PENNEY & CO.,

LONDON : CAVENDISH HOUSE, 20 OLD CAVENDISH STREET, W.I.

TELEPHONE : MAYFAIR 6946-6947.

NEWCASTLE-ON-TYNE : ROYAL BUILDINGS, BIGG MARKET.

TELEPHONE : CENTRAL 3475.

WHOLESALEERS

Messrs. BARCLAY & SONS, LTD.	95 Farringdon Street, E.C.4
Messrs. BROOK, PARKER & CO., LTD.	Ashfield, Horton Road, BRADFORD
Messrs. BURGOYNE BURBIDGES	12 Railway Approach, London Bdge. Stn., S.E.1
Messrs. BUTLER & CRISPE	80-82 Clerkenwell Road, E.C.1
Messrs. C. A. CRITCHLEY & CO., LTD.	19 Cardwell Place, BLACKBURN
Messrs. RICHARD DANIEL & SONS	Derwent Street, DERBY
Messrs. W. EDWARDS & SON	157 Queen Victoria Street, E.C.4
Messrs. FRANCIS NEWBERRY & SONS, LTD.	27-35 Charterhouse Square, E.C.4
Messrs. MAY, ROBERTS & CO., LTD.	7-13 Clerkenwell Road, E.C.1
Messrs. W. PATERSON & SONS	ABERDEEN
Messrs. SANGERS	42a Hampstead Road, N.W.
Messrs. J. THOMPSON (Wholesale Druggists, 1921), LTD.	27-35 Duke Street, LIVERPOOL

MALT EXTRACT MALT AND OIL



OUR manufactures are renowned for their palatability and general excellence. They are guaranteed absolutely pure and prospective buyers are invited to write for samples and prices.

Supplied in bulk in tap drums, if desired, also in tins, and amber jars.

A large selection of beautiful labels to choose from with customer's name and address imprinted free of charge.

Correspondence invited.

HARKNESS, BEAUMONT & CO.

Wholesale Druggists and Malt Specialists,
JUNCTION BRIDGE, LEITH, EDINBURGH.

INDEX TO ADVERTISERS.

Allen & Hanburys, Ltd. (Flexible Capsules, &c.)	Cover	Burt, Boulton & Haywood, Ltd. ("Ialine" Preparations)	48	Fougera, E., & Co., Inc. (Medicinal Preps.)	xii
Allen, Stafford & Sons, Ltd. (Lavender Oil)	5	Cartwright, W. B., Ltd. (Capsicum Wool, &c.)	Cover	Fox, Francis F., & Co. (Oils)	xxiv
Altringham Rubber Co. (Toy Balloons)	32	Cellophane Co. (Wrapping Material)	42	Frankenberg, L. (Razors, &c.)	40
Arnott, J., & Sons, Ltd. (Oils)	xxv	Christy, T., & Co. (Grips Pastilles, Zepto Cachets)	41-i-xix	Gardiner & Co. (The Scotch House), Ltd. (Overalls)	30
Ashton & Parsons, Ltd. (Phosphorine) xxvi Association of Manfg. Chemists Col. Supp.		Chlorophyl & Chemical Corp., Ltd. (Phyllosan)	2	Gardner, W., & Sons (Glos.), Ltd. (Machinery)	38
Austin, J., Ltd. (Cardboard Boxes)	40	City of London College	40	Garfield Tea Co.	xx
Ayrton, Saunders & Co., Ltd. (Whole- sale Druggists)	15	Clark's Syphon Stove Co., Ltd.	38	Genatossan, Ltd. (Competition)	18-19
Baker & Roberts (Chemists' Valuers) Col. Supp.		Coleman & Co. (Wincarnis)	xxii	George, E. J. (Stocktaking)	Col. Supp.
Barker, R., & Son, Ltd. (Infants' Pre- servative)	xxii	College of Preceptors	40	Gibbins, R., & Co. (Tablets)	ix
Bell, J., & Croyden, Ltd. (Toilet Preps.)	21	Cooper, Son & Co., Ltd. (Cachets)	41	Gilston, P., & Co. (Bottles)	12
Berdoe & Fish	Col. Supp.	County Chemical Co., Ltd. (Eau de Cologne)	20	Glaxo (Food)	1
Berk, F. W., & Co., Ltd. (Acids, &c.)	v	Cossor, A. C., & Son (Clinicals)	34	Glew, F., Harrison (Radium Com- pound)	Col. Supp.
Berkfeld (Filter Co. (British)	12	Crookall, J. F. (Produce Merchant)	x-Col. Supp.	Goodall, Backhouse & Co. (Tins)	40
Berton, Arthur, Ltd. (Vacuum Flasks, &c.)	16	Crookes Laboratories (Crookes Col- loids)	xvi	Gower, J. (Books)	Col. Supp.
Betts & Co., Ltd. (Coll. Tubes)	38	De St. Dalmas, A., & Co., Ltd. (Plasters)	32	Greeff, R. W., & Co., Ltd. (Chemicals)	9
Bidwells, Ltd. (Brushware)	26	Dearborn, Ltd. (Toilet Specialities)	23	Griffin, J. J., & Sons, Ltd. (Pharma- ceutical Machinery)	46
Blackie, Robert (Malt and Oil, &c.)	xviii	Demuth's, R., Laboratories (Frozo- clone, &c.)	23	Grisons Pure Oats Cocoa Co., Ltd.	xxi
Booth & Co. (Flycatchers)	43	Dickeson, R., & Co. (Besorbon)	40	Grondard Maisonneuve & Co.	40
Boots Pure Drug Co., Ltd. (Chem- icals)	vii	Don Canister Co., Ltd. (Tins)	39	Guildhall Corrugated Paper Co.	40
Bourlat, J. R. Goes & Co. (Powder Puffs)	20	Electricity	44	Haller & Phillips, Ltd. (Decolorising Carbon)	ii
Boussard, M. E. (Urodonal, &c.)	xvii	Evans, Sons, Lescher & Webb, Ltd. (Trawler Emulsion, &c.)	13	Harker, C. R., Stagg & Morgan, Ltd. (Peloid)	10
Brett & Co.	Col. Supp.	Evan-Williams Co., Ltd. (Cocoanut Oil Shampoos)	26-41	Harkness, Beaumont & Co. (Malt Extract, &c.)	4
Bristol-Myers Co. (Saline Laxative)	xiv	Everett & Co. (Rubinat-Llorach)	xxvi	Harrison, A., & Sons (Printing)	xxiv
British Diamalt Co. (Malt Extract)	xiv	Ferris & Co., Ltd. (Nigroids)	41	Harrogate Tablet Co., Ltd. (Worm Cakes)	xviii
British Drug Houses, Ltd.	Cover	Field, C. W., Ltd. (Saponine Powder, &c.)	vi	Hawker & Botwood, Ltd. (Corvisine)	40
British Dyestuffs Corporation, Ltd.	xxvi	Fine Chemicals, Ltd.	41	Haywood, J. H., Ltd. (Surgical Appliances)	32
Brown & Son (Machinery)	38	Fink, F., & Co. (Gums)	41	Himrod Manf. Co. (Asthma Cure)	xiv
Brunner, Mond & Co., Ltd. (Alkalies)	viii	Flemons, J., & Sons (Dandelion Root, &c.)	xviii	Honeywill Bros., Ltd. (Alcohol)	41
Burge, Warren & Ridgley, Ltd. (Hot- Water Bottles)	6	Forhans (Dentifrice)	29	Hovenden, R., & Sons, Ltd. (Toilet Preps.)	14
Burrough, J., Ltd. (Absolute Alcohol) Text		Formol Co. (Potassium Bromide)	vi	Hubbuck, T., & Son, Ltd. (Oxide of Zinc)	vi
Burroughs, Wellcome & Co. (Photo- graphic Chemicals)	47			Huisking, C. L., Inc. (American Drugs)	xii

{Continued overleaf.



NEW CROP ENGLISH

LAVENDER OIL

THE NEW SEASON'S OIL IS NOW READY.
Samples and prices to wholesale buyers.

STAFFORD ALLEN & SONS, LTD.

COWPER STREET, FINSBURY,

LONDON, E.C. 2

Telephone: Clerkenwell 2100 (4 lines).

INDEX—cont.

Jackson Bros. & Co. (Glauber Salts)	ii	National Cash Register Co., Ld.	xxiv
Jarvis, W.	Col. Supp.	Newbery, F., & Sons, Ld. (Sundries)	24
Johnson & Sons (Mfg. Chfs.), Ld.		Oldfield, Pattinson & Co. (Pharm. Preps.)	Cover
(Malt Extract, &c.)	iii	Old Strand Chem. & Trading Co., Ld.	
Josephs, Philip, & Sons, Ld.	Col. Supp.	(Chemicals)	ii
Kay Bros., Ld. ("Dak" Ratlime)	8	Orridge & Co.	Col. Supp.
Kerfoot, T., & Co., Ld. (Souchets)	1/7	Oury, Millar & Co. (Gelatines)	xiv
Khambata, J., & Co. (Chem.)	iv	Page, Chas., & Co., Ld. (Chemicals)	ix
King, J. C., Ld. (Awlmetal Moisterer)	30	Peat Products (Sphagnum), Ld.	xvii
Lang, Jules, & Son (Glassware)	7	Penney & Co. (Toilet Preparation)	3
Langley-Smith & Co. (Motor Tractor Oils)	xxv	Petri Bros. (Lead Acetate, &c.)	ix
Laporte, B., Ld. (Chemicals)		Preemco Concentre & Essential Oil Co. (Essential Oils)	24
Lawrence, T. B., Ld. (Poster Advertising)	v	Price's Patent Candle Co., Ld. (Toilet Soap)	24
Lax & Shaw, Ld. (Bottles)	35	Proprietary Cures (Parent) Co., Ld. (Krenomar)	xx
Levermore, A., & Co., Ld. (Precip. Chalk)	41	Provincial Exhibitions, Ld. (Chemists' Exhibition)	20
Licenses and General Insurance Co., Ld.		Pure Russian Liquid Paraffin Co., Ld.	xxviii
Llewellyn, F., & Co. (Bicycles)	46	Rajar, Ld. (Photographic Materials)	45
London College of Pharmacy	35	Reynolds & Branson	Text
London Rubber Co.	32	Roberts & Co. (Tonic)	xvii
McCaskey Register Co., The (Registers)		Robinson & Sons, Ld. (Pill Boxes)	39
MacCherie Toilet Preps.	22	Robinson, B., & Co., Ld. (Wines)	xxiii
McGlashan, D., Ld. (Abidine)	41	Ronsheim & Moore (Chemicals, &c.)	iv
McKesson & Robbins (Calox)	26	Rose, J. L. (Pyrogallic Acid)	41
Macbean, E., & Co., Ld. (Surgical Goods)		Ronoke Hot-Water Bottles	31
Marcuson Bros. & Co. (Sponges)	28	Ruch, A., & Co. (Bottles)	43
Margerison, J., & Co. (Toilet Soaps)	22	Rudduck & Co.	Col. Supp.
Marsden, C. C.	Col. Supp.	Saltrates, Ld.	36-37
Maund, F. (Shopfittings)	39	Samuelson, P., & Co. (Ess. Oils)	Text
Maw, S., Son & Sons, Ld.	11	Sanitas Co., Ld. (Disinfectants)	Text
May, Roberts & Co., Ld. (Vacuum Flasks)		Scholl Manfg. Co., Ld.	32
Meikle, A. B. (Perfumery, &c.)	41	Schutze, F., & Co., Ld. (Powder Puffs, &c.)	28
Millar, A., & Co., Ld. (Orange Wine)	41	Scott & Turner, Ld. (Andrews' Liver Salt)	xxvi
Mitchell, N. W., & Sons, Ld. (Corks)	42	Scruton, Oscar, & Co. (Nurse Harvey's Mixture)	xviii
Morris, G. (Developing, &c.)	44	Scurr, C. A. (Correspondence Course)	35
Mortimer Chemical Co. (Canine Shampoo)	42	Shadeine Co. (Hair Dyes)	41
Murphy & Son, Ld. (Rabbit Exterminator)	8	Single, Dalby & Co. (Chicago Hair Dye)	28
Naef, M., & Cie (Synthetic Perfumes)		Slack, A. B.	Col. Supp.
	Text	Smith, Martin H., Co. (Ergoapiol)	xx
		Smith, T. & H., Ld. (Chemicals)	iv

Fig.
957.

The "EMPIRE" HOT WATER BOTTLES REDUCTION OF PRICES.

THE autumn and winter season is rapidly drawing near. Last year, owing to the unexpectedly early demand for Hot Water Bottles, some of our customers were unavoidably kept waiting for supplies.

Place your order now for present or future delivery, as prices will not go any lower than the following. Chemists who have built up a reputation for reliable Hot Water Bottles continue to order our well-known "EMPIRE" brand of these goods. Do not risk trying an unknown make.

One quality only—the Best. Guaranteed for two years.

PRICES as follows:

Heavy make	Sizes	6×8	6×10	6×12	8×10	8×12	8×14	10×12	10×14 in.
Grey rubber	each	3/5	3/9	4/1	4/5	4/9	5/3	5/6	6/0
Red rubber	"	3/8	4/0	4/4	4/8	5/0	5/6	5/9	6/6

Each Bottle in a strong paper bag with directions for use.

COVERS.

Sizes	6×8	6×10	6×12	8×10	8×12	8×14	10×12	10×14 in.
Scarlet or grey plush ea.	1/2	1/4	1/6	1/7	1/8	1/10	2/-	2/3
Velour, assorted colours (washable)	each	1/3	1/5	1/7	1/9	1/10	2/-	2/3

MUFF WARMERS, red rubber, oval shape, 3½×7 in., each 2/-

A discount of 5 per cent. for prompt cash is allowed on all amounts of 10/- and upwards. Money returned if goods are not satisfactory. Write for Price Lists of Druggists' Sundries, Rubber Goods, Cut Sheet Rubber Appliances, etc., containing full particulars of our well-known "Empire" brand of Air Cushions, Clinical Thermometers, Enemas, Hot-Water Bottles, etc., etc.

BURGE, WARREN & RIDGLEY, Ltd.,

91 & 92 GREAT SAFFRON HILL,
LONDON, E.C.1.

THE AUTUMN AWAKENING

of trade, and the renewed business activity of firms who put up their productions in attractive GLASSWARE, should now send us their enquiries for the ensuing season. We hold big stocks of nearly all trade requirements. May we quote you?



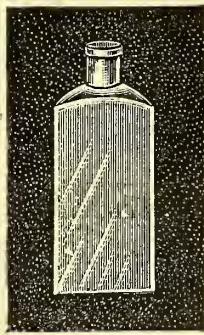
KALI

KALIS
LIMES
MEDICALS
EAU DE COLOGNES
OPAL POMADES



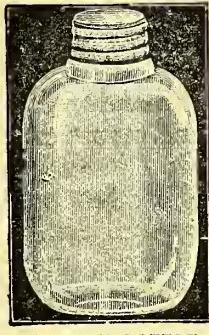
EARTHENWARE POMADE

SMELLING SALTS
SYRINGES
DROPPING BOTTLES
SURGICAL GLASSES



MEDICAL

CHEMICAL & LABORATORY GLASSWARE, TEST TUBES, VIALS, BURETTES, SAMPLE TUBES, &c. &c.



TABLET BOTTLE



TWO-ENDED FEEDER

*Wholesale Only.
No Retail Firms Supplied.*



Narrow-mouth SHOP ROUND

JULES LANG & SON,
CHARLTON WORKS,
CHARLTON PLACE, ISLINGTON, N.1
(Opposite Agricultural Hall).

Telephones: North 2770-2 (3 lines).
Telegrams: "ASSORTED, PHONE, LONDON."

Codes: A B C, 5th Edition. Scott's 10th Edition (1906)
Bentley's Complete Phrase Code.

PLEASE MENTION THIS PAPER WHEN ENQUIRING.

Destroys
Germs.

KILLS GERMS

SPRAZONE

PURIFIES THE AIR

Approved
by
Eminent
Bacteriologists.

World's Greatest Atmospheric Disinfectant.

USED DAILY FOR SPRAYING OFFICES, FACTORIES, INSTITUTIONS AND THE HOME.

Complete Outfits Consisting of Sprayer, Filter Funnel, and Size (a) Container sufficient to make 2 Gals.
£1 1 0

Refills.
Size (o) 6/9
" (a) 12/6



(Awarded the Order of Merit by the Council of the Institute of Hygiene.)

Ideal Reform Outfits consisting of Nickel pump Sprayer, Filter Funnel and Concentrated Essence to make 1 qt. 6/6

Refills.
Size (b) 17/6
Trial bottles 1/9

EXPORT ENQUIRIES INVITED FOR
SPRAZONE (Standard)
ATMOSPHERIC
DISINFECTANT.
SPRAZONE (FLY)
SOLUTION.

Foreign Agencies Entertained.

LIBERAL TRADE DISCOUNT

United Laboratories & Chemical Co.
LTD.

Regd. Office: 97 Queen Victoria St., London, E.C.4 Laboratories: Causeway House, S.E.1
"TREATISE ON THE HOUSE-FLY."—A scientific and interesting pamphlet just published, 3d. Post Free.

Of particular Interest to Chemists in Country Areas

■ ■

WE have pleasure in announcing that, after considerable research, we are now in a position to offer our special liquid FUMIGANT FOR EXTERMINATING RABBITS IN BURROWS AND WARRENS, without danger to the applicant.

SIMPLE :: EFFICACIOUS
:: ECONOMICAL ::

■ ■ ■

Apply for your district agency and full particulars at once.

■ ■ ■

MURPHY & SON, LTD.
MORTLAKE, LONDON, S.W.14
ALSO NOTTINGHAM AND LEEDS

"DAK" Non-poisonous sticky Ratlime

A widespread demand exists for an effective rat and mouse exterminator free from the dangers of poison. "DAK" Ratlime supplies this need. It is well advertised and is selling freely (largely upon the recommendation of users). Write for interesting leaflet and particulars of liberal trade terms.

TINS RETAIL AT
2/6; 4/6; 8/6 and 14/6.

Sole Makers:
KAY BROTHERS Ltd.
STOCKPORT.

The regular users of "DAK" include:

Public Authorities,
Dock & Harbour Boards,
Food Manufacturers,
etc., etc.



"N.C.F."[®] Brand

COCAINE & SALTS

ÆTHOCOCAINE

(Chemically and physiologically identical
with Novocain).

HOMATROPINE

& SALTS

Manufactured by

THE NEDERLANDSCHE
COCAINEFABRIEK,
AMSTERDAM.

"RHODIA"[®] Brand

ANTI-PYRETICS

GUAIACOL PRODUCTS

PHOTOGRAPHIC

CHEMICALS

SALICYLATES

VANILLIN

and other fine chemicals.

Manufactured by

SOCIÉTÉ CHIMIQUE
DES USINES DU RHÔNE,
PARIS.

QUININE and SALTS

QUININE DICARBONATE

QUININE ETHYLCARBONATE

CINCHONIDINE

CINCHONINE

QUINIDINE

QUINOIDINE

} AND SALTS

Manufactured by the

BANDOENGSCHE KININEFABRIEK
AMSTERDAMSCHE CHININEFABRIEK
NEDERLANDSCHE KININEFABRIEK.

Apply to

SOLE AGENTS FOR THE UNITED KINGDOM

R.W. Greeff & Co. Ltd.
THAMES HOUSE, QUEEN STREET PLACE, LONDON, E.C.4.

Tel. Add.
"Greeff, Cannon,
London."

Tel. No.
City 6550
(8 lines)

Branch Office

PALATINE BANK BUILDINGS, 10, NORFOLK ST MANCHESTER.

Tel. No. City 5706/7. Tel. Add. Greeff, Manchester.

YOU HAVE NO DOUBT NOTICED IN THE PRESS THE FOLLOWING ADVERTISEMENT

"PELDO" YOUR HANDS FIRST

Perhaps some of your customers have enquired from you about it?

If you do not already know "Peldo" we shall be pleased to send you a Trial Tube post free, so that you may learn all about it; you will then have a very interesting subject to talk about to your customers.

The following Testimonials are interesting:—

 "Dear Sir,—I have now for the past 17 years washed, cleaned and done everything necessary to my car myself and have benefited greatly thereby. The only drawback to doing everything for the car with my own hands is the difficulty of keeping these members clean and presentable. After using many soaps and other concoctions I have *at last* found a way of keeping my hands in a gentlemanlike condition.

I am not an agent for, and do not wish to advertise any particular wares, but in the interest of other men who look after and keep their own cars will you tell them that 'Peldo' is all that is claimed for it by the makers."

 "Dear Sirs,—After using 'Peldo' Skin Cream I feel that motoring has been robbed of its last remaining drawback.

It is now possible to be a practical motorist, and also a gentleman—at least as far as one's hands are concerned."

 "Dear Sirs,—About three weeks ago I wrote to you asking for an address in Sheffield where I could buy your 'Peldo.' I purchased a tube at Messrs.

I thought I would like to tell you what a wonderful invention it is. My hands are always more or less, in a bad condition in spite of using all kinds of Cream, but after *one* week of 'Peldo' they are beautifully soft and clean.

Wishing you every success."

 "Dear Sirs,—Having just finished a complete overhaul, and dismantling and refitting of a J.A.P. Engine fitted to my Morgan, I feel I must write to congratulate you on having put on the market an absolute boon and blessing to all motorists who, like myself, like to do their own repairs, and don't care to have to use a file to remove the dirty oil and grease which seems to have such affinity for one's hands. Your claims for 'Peldo' are more than justified. I shall never be without it and regard it as an invention second only to that of the Petrol Engine itself.

Wishing you every success, which is richly deserved."

RETAIL PRICE

**1/6 EACH
NET**

(P.A.T.A.)

Attractive Window Display material and Showcards supplied. Sample Tubes supplied gratis in proportion to quantity ordered.

WHOLESALE PRICE

**13/6 PER
DOZ.**

In order to introduce "Peldo" we are offering a special bonus for a guaranteed window display of not less than 14 days as follows:

On orders of 1 gross a bonus of 18 full-size tubes.

On orders of 6 dozen a bonus of 8 full-size tubes.

On orders of 3 dozen a bonus of 3 full-size tubes.

Further particulars on application to

C. R. HARKER, STAGG & MORGAN, LTD.

Devon Wharf and Bell Wharf, Emmott Street, MILE END, E. 1.

Maw's Page

September 9th, 1922.

No. 569.



Important

Still another reason why you should buy from Maw's

All sundries orders on the House of Maw to the value of £5 (five pounds) and upwards, will in future be sent in FREE PACKAGES. This means a considerable saving to you in space, time and money. You will be spared the trouble and space required for storing cases pending their return, and the time and cost of despatching them for credit. In other words, our list price for goods over £5 in value will in future represent the actual cost of the goods delivered at your counter.

We have been conscious of the fact that the storage of cases involved considerable inconvenience to you, and that in many cases the cost of returning them was almost equal to their value. We have therefore made special efforts to meet the wishes of our customers, and we feel sure our decision will be appreciated.

NOTE.—This does not apply to bottle crates or casks which are the property of the bottle manufacturers, and therefore beyond our control.

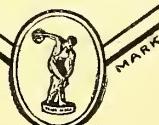
S. Maw, Son & Sons, Ltd.

Aldersgate St., London.

and Barnet.

Telephone :
City 7
Private
Branch
Exchange

Telegrams :
Eleven
Cent
London



Cables :
Eleven
London

Code :
A.B.C.
4th & 5th
Editions



No. J.22.

This Illustration shows the Patent Shock Absorber and the glass refill marked "Thermos."



THE THERMOS LTD.

Announce

A NEW FLASK and Prize Competition.

The J.22 is a new Flask retailing at 5/-. It has our standard refill and Patent Shock Absorber (see specification). It is a great seller and should be stocked by all Dealers.

With the introduction of this Flask a

PRIZE COMPETITION

has been started.

PRIZES, £20, £10, £5, and 100 Flasks.

This very easy Competition is producing big business—every Dealer is interested.

FULL PARTICULARS FROM—

THERMOS LTD., 12-14 Denman St., Piccadilly Circus, London, W.1.

BEST
QUALITY

GLASS BOTTLES

OF EVERY
DESCRIPTION

As used by CHEMISTS, DRUGGISTS, etc. etc., in the White Flint, Quinine-Tinted, Amber, Actinic Green and Deep Blue Colours. Moulds and Lettering made on the Premises.

ENQUIRIES SOLICITED.

WHOLESALE ONLY.

PETER GILSTON & CO.

HUNSLET, LEEDS.

Wire: "GILSTON."

ESTD. 50 YEARS.

Phone: 24336 LEEDS.

BRITISH OWNED.

THE
BRITISH

BERKEFELD FILTER

SARDINIAHOUSE,
KINGSWAY,
LONDON.
W.C.2

H.H.BROWNLOW.
R.S.BROWNLOW.

Filter Cylinder.





WHEN YOU OFFER
**TRAWLER
 EMULSION**
 OR ANY OTHER EVANS' EMULSION

You offer the kind which does not separate, which looks and tastes like the most delicious cream, and which mother does not have to bribe the children to take. We would like to send you a sample, and if you buy in bulk to quote you for the 33½% or 25% Emulsion.

We offer the bottled at the following rates :—

25%

TRAWER, "ELCO" OR OWN NAME.

	Per dozen	6-dozen lots		
3 oz. ..	6/9	6/6	7/-	6/9
6 oz. ..	9/-	8/9	9/6	9/3
8 oz. ..	11/3	10/9	12/-	11/6
12 oz. ..	15/-	14/6	16/-	15/6
16 oz. ..	18/-	17/3	19/6	18/9

33½%

"OWN NAME"

	Per dozen	6-dozen lots	Extra for Cartons
3 oz. ..	7/-	6/9	1/-
6 oz. ..	9/6	9/3	1/3
8 oz. ..	12/-	11/6	1/3
12 oz. ..	16/-	15/6	2/-
16 oz. ..	19/6	18/9	2/-

2½% MONTHLY ACCOUNT.

Special Quotations for Quantity.

EVANS

EVANS SONS LESCHER & WEBB, LTD.

LIVERPOOL

New York

LONDON

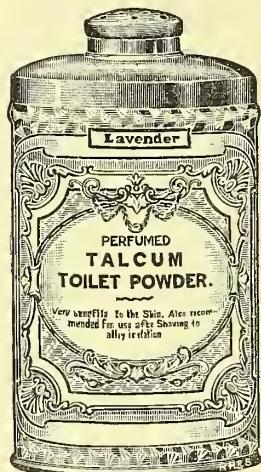
HOVENDEN'S SWEET LAVENDER TOILET SOAP

A high-class super-fatted toilet soap, manufactured exclusively from the purest materials. Exquisitely Perfumed. Antiseptic, Refreshing and Invigorating. A tonic for the complexion.

No. 4837 5/5 doz. 63/- gross.



No. 4837.

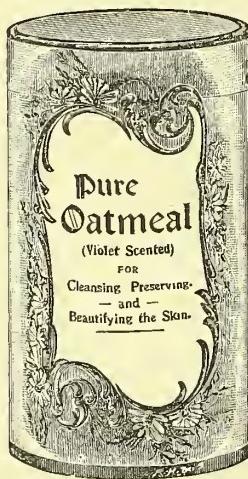


No. 4807.

New Series

Talcum Toilet Powder.

Assorted
Perfumes.
Attractive Finish.
No. 4807.
7/6 87/-
doz. gross.



No. 4549. 8/9 doz.

Violet
Scented
Oatmeal

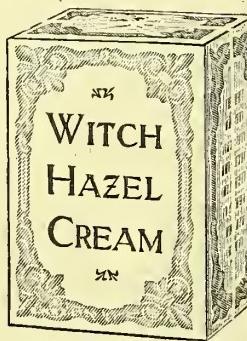
Artistic
Labels.



No. 4838.

Latest Production, Antiseptic Dusting Powder.

In attractive boxes holding about 1 lb.
Made in Violet, Verbena,
Lavender, Carnation.
No. 4838. 30/- doz.



Witch Hazel Cream.

The Summer Toilet
Cream.

A Cooling Cream,
which protects the
skin against sun and
wind.

No. 4766.
2 oz.
13/- doz.



No. 4202. 7/- doz.

R. HOVENDEN & SONS, Ltd., LONDON.

89, 91, 93 & 95 CITY ROAD, FINSBURY, E.C.1.

Tel.: Museum 2810 (3 lines).

And 29, 30, 31, 32 & 33 BERNERS ST., OXFORD ST., W.1.

Factory: 41 to 53 BRITANNIA ROW, ISLINGTON, N.

Tel.: 6260 London Wall (2 lines).

Ayrton's

Strikingly designed tins,
packed
1 dozen in display outer.



An entirely new carton
in 2 Colours,
free with bulk quantities.

PINETTES

the

WINTER SELLER

for which you should contract

NOW

No pine lozenge on the market can compare with these for fragrance, appearance, efficacy—or public popularity.

Tins .. (1½ oz.), 4/3 per dozen .. (3 oz.), 6/9 per dozen.

1 dozen bonus added to gross orders.

Cartons (2 oz.) 4/- per dozen 48/- per gross.

In bulk ..	1 lb.	14 lbs.	28 lbs.	56 lbs.	1 cwt.
------------	-------	---------	---------	---------	--------

Price ..	2/1	2/-	1/11	1/10	1/9
----------	-----	-----	------	------	-----

Free cartons —	50	100	200	400
----------------	----	-----	-----	-----

Special packings for Export.

Prices on application.

AYRTON, SAUNDERS & CO. LTD.

Manufacturing Chemists :: Hanover St., LIVERPOOL.

Telegrams: "SUNDRIES, LIVERPOÓL."

Telephone: ROYAL 4861.

TRADE

MARK

Telegrams :
 'Aybelim, Finsquare, London'
 Cables :
 Code, A B C 5th Edition.

Telephone :
 CLERKENWELL 1347
 " 1348
 " 1349
 Pte. Exchange



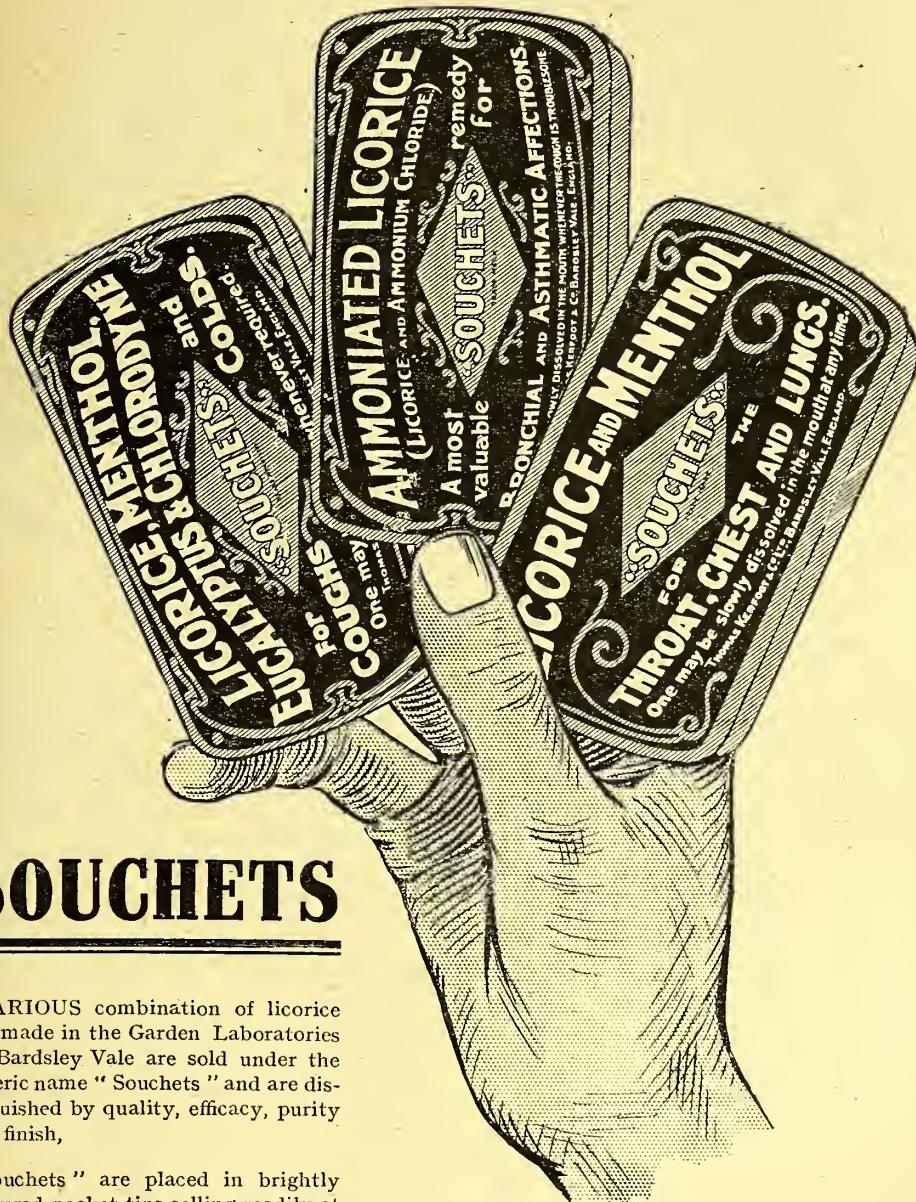
ARTHUR BERTON LTD.

SPECIAL LINES IN VACUUM FLASKS

DELIVERY FROM STOCK
 WRITE TO-DAY FOR
 QUOTATIONS AND SAMPLES

WAREHOUSES & SHOWROOMS :

15 & 17 Worship St., LONDON, E.C. 2. 84 Miller St., GLASGOW
 AND
 36 Chapel Street, Victoria Bridge, MANCHESTER.



SOUCHETS

VARIOUS combination of licorice made in the Garden Laboratories at Bardsley Vale are sold under the generic name "Souchets" and are distinguished by quality, efficacy, purity and finish,

"Souchets" are placed in brightly coloured pocket tins selling readily at 6d. (Trade price 3/9 per doz.) In bulk, price 5/- lb. Licorice and Menthол "Souchets" are also sold in 1/- tins. (Trade price 7/6 per dozen).

LICORICE & MENTHOL
LICORICE & CHLORODYNE
AMMONIATED LICORICE
LICORICE, MENTHOL, EUCA-
LYPTUS & CHLORODYNE

THOMAS KERFOOT & CO LTD
BARDLEY VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1797.

COPYRIGHT

ENTER THIS NOVEL AND
INTERESTING COMPETITION

ONE THOUSAND POUNDS

For the Best Suggestions

FIRST PRIZE - - -	£400
SECOND PRIZE - - -	£200

Can you sell more of our products in October than you did last May?

If you can, it is immaterial whether you have a large business or a small one—you stand an equal chance of winning one of the above handsome cash prizes.

"HOW I PUSHED

Sanatogen, Formamint and Genasprin

IN SEPTEMBER—OCTOBER, 1922.

The prizes will be awarded for the thirty-three best statements on this subject—that is, simply for pushing our lines and describing your most successful methods of salesmanship.

Literary skill counts for nothing; the prizes will be given for the general utility and effectiveness of your selling methods; and the Judges will also take into consideration the percentage increase of your sales in October as compared with May last.

This straightforward businesslike Competition will remain open until October 31st, and there are no complicated rules or conditions.

The sole condition of entry is to send us a £5 order for all our lines (mixed) either through your usual wholesaler, or on our usual direct cash terms, and agreeing to give us a window display throughout the month of October.

The sooner you enter the better your chance of success.

OPEN TO ALL BRITISH
RETAIL CHEMISTS. . . .

IN CASH PRIZES

on SALESMANSHIP.

THIRD PRIZE - - - £100

Thirty Prizes of £10 each £300

If Sanatogen, Formamint and Genasprin were your own proprietaries—sold only over your counter, by your own personal efforts—you would doubtless think of many ways to “push” them vigorously, and that is the spirit in which the Competition should be entered.

Remember that every time you sell a large tin of Sanatogen, for example, you put from 2/7½ to 3/5 in your own pocket. So, whether you win a prize or not, every minute you spend on this fascinating competition must benefit you both directly, by producing increased sales of our lines, and indirectly by causing you to think of new selling methods—applicable to all your goods—which otherwise might not have occurred to you.

Write at once for the Competition Order Form.

The names of the Judges, who are all well-known to the Pharmaceutical Trade, will be announced shortly; and the winning replies will be published, with the names and addresses of the successful competitors, in the leading Trade papers as soon as possible after October 31st.

Later on, we shall also issue to the Trade a pamphlet containing a general selection from all the replies received; and every competitor quoted in this pamphlet, with the exception of the actual prize winners, will be paid half-a-guinea.

If you already have substantial stocks, delivery of your qualifying £5 order can be postponed, on request, for a period not exceeding three weeks from date of entry.

Send a post-card to-day for an entry-order form to the Competition Manager,
GENATOSAN LTD., LOUGHBOROUGH, LEICESTERSHIRE.

A BARGAIN

Eau de Cologne offered at less than cost.

OWING to exchange difficulties we have accepted
in contra account from a Paris manufacturing
perfumer a large quantity of

SUPERB EAU DE COLOGNE (in bulk)
which we are offering at less than cost price.

Send 3d. stamps for Sample and our Bargain prices.

N.B.—WE OFFER GENUINE COLOGNE MADE WITH S.V.R.

THE COUNTY CHEMICAL COMPANY, LTD.
Chemico Works :: BRADFORD STREET, BIRMINGHAM.

Under the auspices of the
Manchester Pharmaceutical Association,
Salford Pharmaceutical Association,
Accrington and District Pharmacists'
Association,
Burnley Pharmacists' Association.

Manchester Chemists' Exhibition

City Hall, Deansgate, Manchester,
November 20 to November 25, 1922



**A FEW STAND SPACES
STILL AVAILABLE.**

Apply to

PROVINCIAL EXHIBITIONS, LIMITED

City Hall, Deansgate, Manchester.

Telephone : 3832-3, City. Telegrams : "Exhibition, Manchester."

COMBS

These superior Moulded Combs,
with Burr-Grailed Teeth, are
being offered at Reduced Prices.

BLACK CELLULOID

Size
 $8\frac{1}{2} \times 1\frac{1}{2}$ "

Price
7/-
per dozen

"GRIP WELL" COMBS. All Sizes and Patterns in Stock.
VULCANITE TOOTH COMBS. All sizes.

Immediate Delivery. Lowest Quotations. Price List on application.
H. WISEMAN, 42/43 Gutter Lane, London, E.C.

TERMS 5% Cash with Order. Carriage Paid.
2½% Monthly on Approved References.
Telephone : City 9164.

POWDER PUFFS

Our creations in this line are acknowledged to be UNIQUE, and
wherever shown they appeal to the lady of refinement because of
their ORIGINALITY of design.

Our Novelties are packed singly in round fancy boxes and bear our
gold seal ROSETTE with device of basket of roses, which stands
for Quality, Blue-china Workmanship. One dozen boxes are
packed to the carton, which packing is most convenient for shipping.
Manufactured throughout by BRITISH LABOUR in our own work-
shops under ideal conditions, our Powder Puffs are demanded
practically the WORLD OVER.
Markets still open include THE EAST, THE UNITED STATES OF
AMERICA and SOUTH AMERICAN STATES. We kindly invite
enquiries from Merchant Shippers catering for these countries
confident that there need only be a few of our novelty puffs shown
to create a large demand.

J. R. BOURLAT, GOES & CO.,
Manufacturing Specialists in Fancy Powder Puffs to the Whole-
sale and Shipping Trade ONLY,
22 Princes Road, Holland Park, LONDON, W. II.
Telephone Nos. : PARK 240 & 2592.

The Unsurpassed

Toilet Series.



Perivale Preparations

The quality of these preparations and style of packing reaches a height of perfection seldom obtained, resulting in quick sales and liberal profits to the Pharmacist.

A Bonus Parcel Shows over 80% Profit on Cost.

SPECIMEN £5 BONUS PARCEL. "PERIVALE" PREPARATIONS.

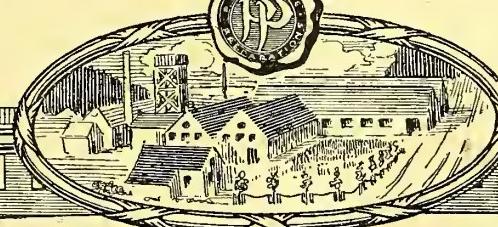
	MODEL ORDER.	Carriage Free.	Trade Price.	Retail Value.
1/6 doz.	Bath Dusting Powder	4/0 ..	7/6	
1/12 "	Boxes Toilet Soap	2/0 ..	3/0	
1/12 "	Bath Soap	3/10 ..	5/9	
1/12 "	Creme aux Amandes	2/0 ..	3/0	
1/6 "	Dental Cleanser	2/0 ..	3/0	
1/3 "	Floral Bath Salts	12/0 ..	18/0	
1 "	Brillantine, 2 ozs.	10/0 ..	15/0	
1/2 "	" 4 "	8/0 ..	12/0	
8/12 "	Hair Cream	8/0 ..	12/6	
1/12 "	Lait Complexion	2/4 ..	3/6	
1/12 "	Lavender Water, 4 ozs.	5/0 ..	7/6	
1/12 "	" 8 "	9/8 ..	14/6	
1/3 "	Liquid Shampoo	5/4 ..	8/0	
1/3 "	Mouth Wash, 4 ozs.	5/4 ..	8/0	
1/2 "	" 8 "	6/0 ..	9/0	
1/6 "	Shaving Cream	3/4 ..	5/0	
1/2 "	Solid Brillantine	5/0 ..	7/6	
1/2 "	Spirit .. 2 ozs.	5/0 ..	9/0	
1/3 "	" 4 "	6/8 ..	10/0	
1 "	Tooth Paste	10/0 ..	15/0	
1/4 "	Vanishing Cream	3/6 ..	5/3	

On any order to the money value of £5 for
these preparations goods will be supplied to
the value of £6 and sent carriage free.
On orders to the money value of £10 an
extra 5% discount will be given.

£6 0 0	£9 1 6
Cost .5 0 0	
Profit £4 1 6	

Manufactured Solely by

JOHN BELL & CROYDEN, Ltd.
Incorporating ARNOLD & SONS,
6, Giltspur St. LONDON, E.C.1.



Pure

MARGERISON'S

Fragrant

WHITE WINDSOR SOAP

HEIGHT - 14½"
WIDTH - 10½"
WEIGHT - 8lbs.



Economical

Introduced to the public more than 50 years ago. The splendid value is emphasised by the fact that our sales are continually increasing.

If you have not tried this line please write for SAMPLES, also particulars of our FREE OFFER of Bust of H.R.H. The PRINCE OF WALES (as per illustration) modelled in this very fine soap.

1-lb. and ½-lb. pieces packed in elegant cartons.

J. MARGERISON & CO.,
Toilet Soap Manufacturers,
White Windsor Soap Works, PRESTON.

Cleansing

LINES THAT SHOW GOOD PROFITS

Taylor's
CIMOLITE PREPARATIONS

50 YEARS' REPUTATION.

Used in all Royal Nurseries and by the Nobility.

CIMOLITE TOILET POWDER.

Boxes, 1½ (per doz. 9/6)
Tins, 3/-, 5½, 11/- (per doz.
27/-, 49/-, 96/-)

CIMOLITE TOILET CREAM.

Collapsible tubes, 1/3 (per
doz. 11/6)



Cimolite Preparations are stocked by all wholesale houses.

ATTRACTIVE SHOW CARD obtainable from
all wholesalers or direct.

PREPARED ONLY BY

JOHN TAYLOR, Manufacturing Chemist
30 BAKER STREET, PORTMAN SQ., LONDON, W. 1

“MA CHÉRIE”

TOILET PREPARATIONS.

LEEDS EXHIBITION



STAND No. 14.

Don't place your Orders till you
compare our Prices and Production.

DEARBORN LTD.

37 Gray's Inn Road,
LONDON, W.C.1.

Toilet Specialties.

	Price per doz. to Retailer	Selling Price P.A.T.A.
PILENTA SOAP ...	10/-	1/-
A complexion soap.		
PROLACTUM ...	10/-	1/-
For the lips.		
PARSIDIUM JELLY ...	10/-	1/-
For wrinkles.		
ALLACITE OF ORANGE BLOSSOM ...	22/6	2/6
A dressing cream.		
BORANIUM ...	22/6	2/6
A hair tonic.		
CLEMINITE ...	22/6	2/6
For a face lotion.		
COLLIANDUM ...	22/6	2/6
For a face tint.		
PERGOL ...	22/6	2/6
A deodorant.		
TEKKO PASTE ...	22/6	2/6
Camphor cream.		
STALLAX ...	22/6	2/6
For a shampoo.		
JETTALINE ...	31/6	3/6
For clearing the skin.		
PHEMINOL ...	36/-	4/-
A depilatory.		
MENNALINE ...	36/-	4/-
For the eyelashes.		
MERCOLIZED WAX ...	31/6	3/6
A face cream.		
STYMPOL ...	36/-	4/-
For oily complexions and blackheads.		
SILMERINE ...	22/6	2/6
Hair-curling fluid.		
BARSYDE ...	22/6	2/6
Dandruff eradicator.		
TAMMALITE ...	22/6	2/6
For grey and faded hair.		
LIQUID PERGOL ...	31/6	3/6
To check excessive perspiration locally.		
BICROLIUM ...	22/6	2/6
For whitening the hands.		
HARAPOSA ...	22/6	2/6
Nut oil shampoo.		
COCONOIDS ...	31/6	3/6
For figure development.		

The Products of

Messrs. PARKER, BELMONT & CO.	
CLYNOL BERRIES {	36/- 4/-
For obesity.	58/6 6/6
SOFT PALERIUM... ...	45/- 5/-
For wrinkles.	
LIQUID NAIL POLISH ...	10/- 1/-
Brilliant and lasting.	

Stocked by ALL Wholesale Houses.

COLONIAL DEPOTS AND AGENCIES.

Australia: ALL WHOLESALERS, & DEARBORN (Australia), Ltd., Grace House, Clarence Street, Sydney.
South Africa: LENNON Ltd., Cape Town, etc.
SIVE BROS. & KARNOVSKY, Johannesburg.
India: FRAMJEE & SON, Bombay.
SMITH, STANISTREET & CO., Calcutta.
New Zealand: SHARLAND & CO., Auckland & Wellington.
South America: DEARBORN (South America), Ltd., Calla Salta 264, Buenos Aires.
Straits Settlements & Federated Malay States: MEDICAL HALL, Ltd., Singapore.

Frozocclone
REGD.

The Original and Best SOLID Eau de Cologne

*Its Elegance and Utility
appeal to all.*



In Green Bottles, Registered.

Made from the finest Eau de Cologne. Refreshing when rubbed on the forehead, pleasant as a smelling bottle, invaluable in a heated atmosphere or when travelling. A real acquisition to every household. A boon to those in hospital.

RETAILS AT 3/6 Min. P.A.T.A.
PER DOZEN 32/-

Special terms for Bonded
Shipment of 4 gross Minimum.

SOLID ENGLISH LAVENDER
In Blue Glass. Terms as Frozocclone.

R. Demuth's Laboratories
68 Salusbury Rd., & Montrose Av., London, N.W.6

A facsimile reproduction
of this Charming
and Popular Toilet Soap.



Made by
PRICE'S
Battersea, S.W.11.

"Newberry's"
FRANCIS NEWBERY & SONS LTD.

Oil of Peppermint.

Pharmacists in their dispensing and manufacture should use Oil of Peppermint which is produced only from selected plants.

As the sole selling agents for Messrs. John Jakson & Co., Ltd., of Mitcham, the largest growers of Peppermint, we are able to supply Oil of Peppermint in sealed containers guaranteed to meet the B.P. standard.

FRANCIS NEWBERY
& Sons, Ltd.
LONDON & CARDIFF.

Perfume
your
Preparations
with



PREEMO

CONCENTRATED
ESSENCES AND
COMPOUNDS

and you will get

More Satisfaction, Better Sales, Bigger Profits, and more Repeat Orders.

PREEMO ESSENCES impart to all Toilet Preparations in which they are used a delightful charm and fragrance quite of their own. Your customers will be delighted with them and will return again and again for "another bottle like the last." They are highly concentrated, and, therefore, very economical, and being ready for immediate use they require no filtering, mixing or blending beforehand. Used by the leading chemists throughout the world.

PREEMO CONCENTRÉ & ESSENTIAL OIL CO.
63 High Holborn, W.C.1. Telephone: Chancery 8095.
AND AT PARIS AND NEW YORK.



NON-SEPARABLE.

1 oz.	4/9 doz.
2 "	7/- "
3 "	9/- "
4 "	11/- "

SEPARABLE.

1 oz.	5/3 doz.
2 "	8/- "
3 "	10/6 "
4 "	12/6 "



NON-SEPARABLE.

3 oz. 9/- doz.

SEPARABLE.

3 oz. 10/6 doz.

SHOW CARDS
and
CUSTOMER'S NAME

free on 3 doz. of a style
assorted sizes.



IN OVAL GREEN ENAMELLED
TINS.

7/6 doz. 84/- gross.

Write for full illustrated list and specimens of labels.

Telephone :
HOP 4170
(2 lines).

WILLIAM TOOGOOD LTD.
77. SOUTHWARK ST.
LONDON. S.E.1.

Telegrams :
"TOOGOOD,
BOROH,
LONDON."

You are Assured a Quick Turnover and a Very Satisfactory Profit—With Calox

THOUSANDS of people everywhere are learning the unique value of Calox—The Oxygen Tooth Powder.

A few days' trial will convince other thousands of its marvellous effects in cleansing, polishing and whitening the teeth.

You can take advantage of the opportunity to secure permanent customers by stocking Calox, and by keeping it in a conspicuous place in your store.

Look over your stock now, and include an order for Calox.

Manufactured by

McKESSON & ROBBINS

INCORPORATED

91 Fulton Street New York, U. S. A.



THE EVAN WILLIAMS' EMULSIFIED COCOANUT OIL SHAMPOOS

in liquid form (2 sizes)

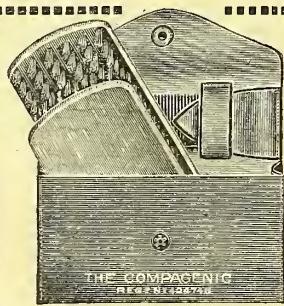
in powder form (packets)

They are well up to the Evan Williams' standard of production, sell freely, and give a handsome profit.

Write for "The Shampoo Salesman," which gives full details of all our Preparations.

THE EVAN WILLIAMS CO., LTD., 18 & 18a Ogle Street, LONDON, W.1.

The largest Shampoo Specialists in the world.



BIDWELL AXMINSTER.

BIDWELL'S 'Compagenic' Hair Brush Set

as advertised in the daily and weekly papers,
Two Hair Brushes and Comb which only take up
the room of one ordinary Hair Brush. Bristles
of one brush fit in between the rows in other.

COST PRICE - Grey 7/6, White 9/-, Ebony 17/6
SELLING PRICE Grey 10/6, White 12/6, Ebony 25/-

CASTLE MILLS, AXMINSTER, DEVON.



The Grey Hair Problem

Solved by an entirely new discovery

**The
Work of an
Eminent
Hair
Specialist**

**Restores
The Colour
Gradually,
Permanently,
Safely**

**Absolutely
Harmless**

A complete solution of the Grey Hair Problem was the task which an eminent Hair Specialist set before himself some years ago. He has SUCCEEDED FAR BEYOND HIS OWN EXPECTATIONS and he has embodied his discovery in a preparation called

Nuctone
Regd.

This preparation has been PUT TO THE TEST for more than two years, every grade and texture of hair being used in the experiments and ENTIRE SATISFACTION has been the result in EVERY CASE.

NUCTONE acts in quite a different way from Hair Dyes, restoring to the cells of the hair THE PIGMENTS WHICH NATURE HAS CEASED TO SUPPLY, leaving the work to be completed by the action of light on the hair.

The usual difficulties connected with the sale of Hair Dyes, such as disappointing or harmful results, are entirely eliminated in the case of NUCTONE, which is guaranteed not to contain any injurious ingredients such as sulphur or lead. It contains a very powerful Bactericide which debars the possibility of injury to the hair, the skin or the general system through using NUCTONE.

Retail Price 6/6 per Bottle.

Manufactured by

Stewart, Goodall & Dunlop, Ltd., 4 Dering St., London, W.1

Stocked by the undernoted Wholesale Houses:

AYRTON, SAUNDERS & CO., LTD.,
Hanover Street, LIVERPOOL.

BUTLER & CRISPÉ,
82 Clerkenwell Road, LONDON, E.C.

HARKNESS, BEAUMONT & CO.,
EDINBURGH.

HATRICK,
152/170 Renfield Street, GLASGOW.

THOMAS McMULLAN & CO.,
Victoria Street, BELFAST.

MAY, ROBERTS & CO., LTD.,
7 Clerkenwell Road, LONDON, E.C.

F. NEWBERY & SONS, LTD.,
27/35 Charterhouse Square, LONDON, E.C.1.

SANGERS,
258 Euston Road, LONDON.

SOUTHALL BROS. & BARCLAY, LTD.,
Priory Lane, BIRMINGHAM.

J. WOOLLEY, SONS & CO., LTD.,
12 Victoria Bridge Street, MANCHESTER.

Advertised in the National Press—therefore much in demand.

MARCUSON'S FOR S P O N G E S

WE DEFY COMPETITION

Buying in Large Quantities, and being unfettered by any combine, we can offer at exceptionally advantageous prices.

REMEMBER WE ARE ACTUAL IMPORTERS

MARCUSON BROS. & CO.

Only ENGLISH Address—32 MINORIES, LONDON, E.1.

CABLES: "PANTALARIA, ALD, LONDON."

PHONE: AVENUE 840.

PUFFS of ALL KINDS in DOWN and WOOL.

SOLID FACE POWDERS

COMPLETE WITH PUFFS.

Inquiries invited by makers,

F. SCHUTZE & CO., Ltd.

BLACK BULL WORKS,

Caledonian Market, London, N.7.



CHICAGO HAIR DYE

Do you know where to obtain?

MADE IN FIVE SHADES.

Sole Proprietors: SINGLE, DALBY & CO.,
42 Oldham Rd., Manchester.

Telephone . . . 5747 Central.

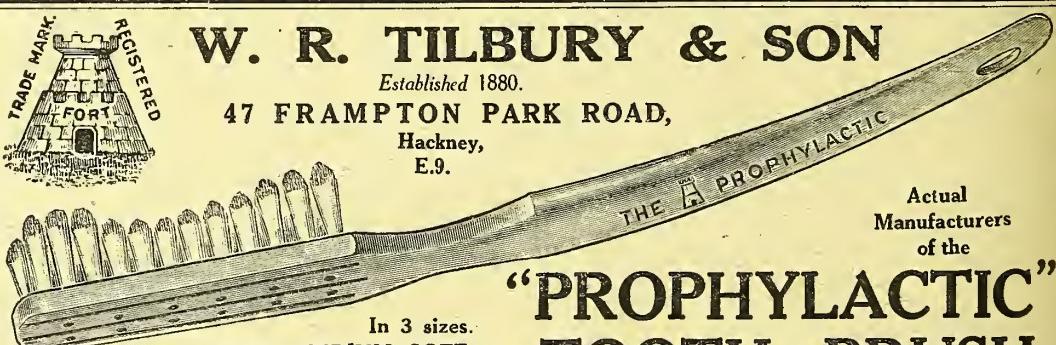


W. R. TILBURY & SON

Established 1880.

47 FRAMPTON PARK ROAD,

Hackney,
E.9.



In 3 sizes.

HARD, MEDIUM, SOFT,

Also VERY HARD UNBLEACHED.

"PROPHYLACTIC" TOOTH BRUSH

Actual
Manufacturers
of the

Each Brush packed in a Carton, sealed at Factory, ensures Brush reaching customer in a clean and wholesome condition.
IT IS ESSENTIAL THAT EVERY BOX AND
BRUSH BEAR OUR WELL-KNOWN BRAND
"THE FORT," THE MARK OF QUALITY.

On sale at the PRINCIPAL WHOLESALE HOUSES.

N.B.—If unable to obtain from your wholesalers,
samples will be sent on application to the manufacturers.

Wholesale Prices: FULL SIZE - 16/- doz.
LADIES' - 15/6 ..

First Quality Only. CHILDREN'S - 11/6 ..

FULL RANGE OF OUR MANUFACTURES CAN BE SEEN AT OUR CITY SHOW ROOMS.
(To the Wholesale only) 90/91 QUEEN STREET, CHEAPSIDE, LONDON. Representatives: A. SCOLES & CO.

Don't miss a single Forhan's sale



4 out of 5

Four people out of every five over forty, and thousands younger are victims of Pyorrhœa.

Does that include you? These figures though startling are accurate statistics which your dentist will verify.

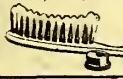
Used consistently and in time, Forhan's For the Gums will prevent Pyorrhœa or check its course. Use it as a dentifrice. It keeps the teeth and gums clean and healthy.

One size only. 2/6 a double-sized tube. At all chemists.

Or get it post free from
THOS. CHRISTY & CO.,
4-12 Old Swan Lane,
London, E.C. 4.

**Forhan's
FOR THE GUMS**

Brush your teeth with it



When you are asked for Forhan's For the Gums, you can be sure of repeat orders from that customer. He wants Forhan's for a specific purpose—to prevent Pyorrhœa or arrest its progress. Only Forhan's will meet his need.

More and more people to-day are realising the dangers of Pyorrhœa. At the same time millions are learning the remedy through Forhan's advertising. Forhan's is advertised, not spasmodically, but steadily and extensively, week after week, and month after month.

It will pay you to take advantage of this publicity. It is creating a steadily increasing demand. If you do not already stock Forhan's For the Gums, write for terms and full trade particulars.

Forhan's

FOR THE GUMS

Forhan's advertising is continued, without interruption, throughout every month of the year.

Thos. Christy & Co.
4-12 Old Swan Lane,
London, E.C. 4.

OILED SURGICAL COTTONS OILED SURGICAL SILKS

EDWARD MACBEAN & Co., Ltd.

Manufacturers of Oil-proofed and Rubber-proofed Cloths of every description.

London Office—6 & 8 Lime Street Square, E.C.3.

123-125 Howard Street - GLASGOW.

Telegrams:

"Diamond, Glasgow."

"Stormproof, Led, London."

Codes: Lieber's 5-Letter, ABC (5th Edition), and Marconi.

Telephones:

8387 Central,

1995 Central.

ESTABLISHED 1839.

PROTECTIVE OVERALL CLOTHING FOR CHEMISTS & DRUGGISTS

**KHAKI DRILL
WAREHOUSE COATS,**

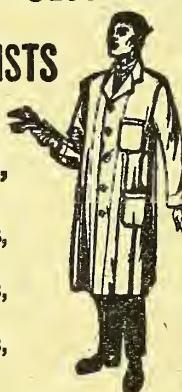
7/11, 10/6, 12/6, 14/6.

**WHITE DRILL JACKETS,
6/6, 7/6, 10/6.**

**WHITE DRILL LABORATORY COATS,
10/6, 12/11, 15/11.**

**BLACK DRILL WAREHOUSE COATS,
18/6.**

Postage on Coats 9d. each.



POST ORDERS Promptly and Carefully Executed.

We pay postage on all orders over 20/-.
Samples and special quotations for quantities sent on request.

STOCK SIZES, 34 to 44 Chest. When writing us measure Chest over waistcoat.

GARDINER & Co. (THE SCOTCH HOUSE) Ltd.
(Dept. T.) 1 COMMERCIAL ROAD, LONDON, E.1.

Phone: Ave. 6650 (4 lines). Wires: "Durastile, Phone, London."

ESTABLISHED 1839.

Write us for copy of New Illustrated Style Booklet and Patterns of New Acid-Proof Clothing.

YOU MUST KNOW

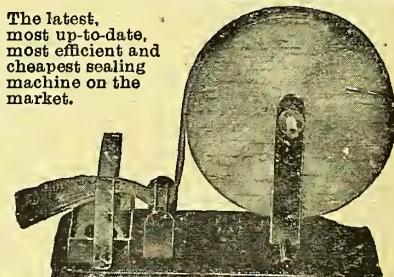
if you are using String, Twine, or Wax for packing, how slow, expensive and clumsy any of these methods are.

GUMMED TAPE is being used by most of the large and up-to-date Firms. But to make sure of Efficiency in your Packing Department use the best Moistener on the Market—KING'S AWLMETAL."

As the name denotes, this Moistener is made completely of Metal. Do not waste time and Money in buying Wooden Machines which will cost you more and will soak up the moisture into the wood and quickly become unusable.

The "AWLMETAL" Moistener will last a lifetime.

The latest, most up-to-date, most efficient and cheapest sealing machine on the market.



PRICE

12/6

EACH

Gummed Tape Extra.

Points.—All metal non-rustable bath and brass roller. Special device to keep tape off roller when not in use. Nickel Cutter. Will take one roll up to 3 in. width or two 1 in. rolls. Takes up small space—viz. 11 x 5½ in. The whole machine takes to pieces for cleaning purposes.

Send a Postcard for Machine on approval at once.

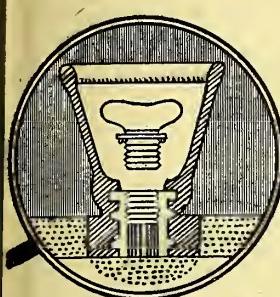
GUMMED TAPE for use with King's "AWLMETAL" Moistener, No. 684 Brown Tape Kraft, width 1 in., length 800 ft., at 2/1 per roll, 24/- per doz.

Gummed Tape can be had in all sizes, qualities, and colours. If required specially printed, send us particulars; we will quote Special Prices by return.

Sold by J. C. KING, LTD.

Specialists in all kinds of Stationery and Time-Saving Appliances.

42-60 Goswell Road, London, E.C.1.



"It's

got it in the neck

—price right
—profit right
—and a better bottle.

YOU'VE got a neck in the "Ronoleke" Hot Water Bottle built right into the bottle itself. No wiring—just solid built-up rubber. It's the secret of the complete water-tightness of the "Ronoleke"—the only rubber bottle completely water-tight. No washer—the screw top flange engages with a solid rubber platform shaped in the neck. Socket can't loosen—lugs embedded in the rubber secure it against the most vigorous screwing. Every time you sell one, you increase the goodwill of your business.

"Ronoleke"

TRADE MARK

SIZE	SUPER RED		DRAB	
	P.A.T.A. Wholesale Prices	P.A.T.A. Retail Prices	P.A.T.A. Wholesale Prices	P.A.T.A. Retail Prices
8 x 10	6/-	9/-	4/8	6/6
8 x 12	6/8	10/-	5/3	7/-
10 x 12	7/8	11/6	6/-	8/-

DISCOUNT ON HOT WATER BOTTLES.—£5 orders and over less 5% plus a further 5% for cash in one month from date of invoice.

The "Ronoleke" is being advertised in powerful papers with national circulations. Let your customers know that you stock "Ronoleke." A display in the window or on the counter will serve to clinch many a half-developed sale.

All "Ronoleke" prices are protected by the P.A.T.A., and an excellent margin is allowed. But do not delay ordering. Last year there was a last-moment rush, which upset delivery.

Obtainable from all leading Wholesalers.

THREE QUICK SELLING LINES

WHICH EVERY CHEMIST SHOULD STOCK.



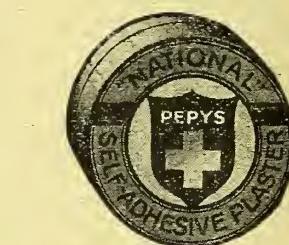
"NATIONAL" ZINC OXIDE PLASTER

On 5-yard and 10-yard Spools.

All Widths.

Strong. Pliable. Non-Irritant.

Very Adhesive. Keeps Indefinitely.



"NATIONAL" SELF-ADHESIVE PLASTER

On Spools or in Tins.

Two of the numerous Counter Packings
which sell at sight.

Write for Price List and Samples to—

A. DE ST. DALMAS & CO., LTD., LEICESTER.



DR. SCHOLL'S ABSORBO PADS.

A shape and size for every corn, callous and tender place. Made of soft rubber, prevents chafing and corrects by absorption. A. 6d. and C. 6d. D. and E. 9d.; F., G. and H. 1/-.

THE SCHOLL MFG. CO., LTD., 1-4 GILTSPUR STREET. E.C.1.



enables you to relieve and correct every type of foot trouble. Our tremendous National Advertising ensures a ready sale for Dr. Scholl's Appliances and Specialities, which are anatomically correct and universally approved by the medical profession. Write for full particulars.

BUY DIRECT

ELARCO RUBBER GOODS

The LONDON RUBBER CO.

183 Aldersgate Street,
LONDON, E.C.1.



THE ALTRINCHAM RUBBER CO.'S NOTED TOY BALLOONS

Prices : 1d., 2d., 3d., 4d., 6d., 9d. & 1/- each, less 33½% discount to the trade.
Customers' own Advertisement printed on at a Nominal Price.

Address : Mossburn Buildings, ALTRINCHAM.

J. H. HAYWOOD, LTD.

CASTLE GATE,
NOTTINGHAM.

INVENTORS
OF
SEAMLESS
ELASTIC
HOISERY.

SURGICAL APPLIANCE
MANUFACTURERS.



Specialities :

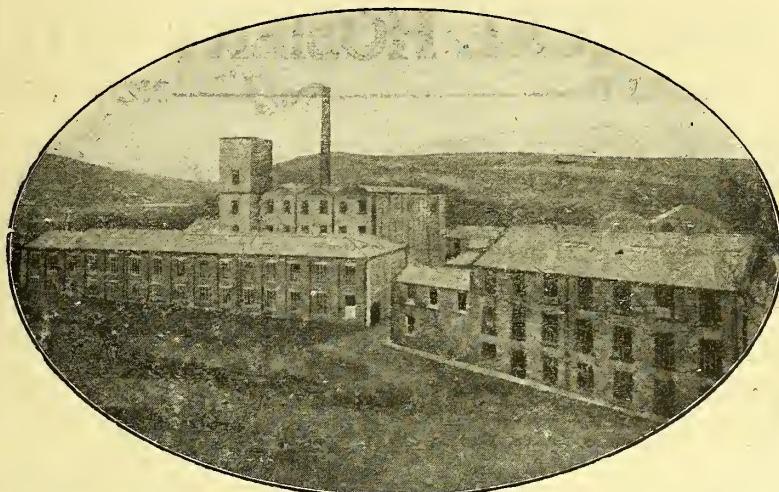
Abdominal Belts,
Trusses,
Suspensory Bandages,
Braces,
Elastic Web Bandages,
and Druggists' Sundries.

WRITE FOR PRICE LIST.

ESTABLISHED 1833.

TELEGRAMS : "APPLIANCE NOTTINGHAM."

Reg. Trade Mark.

Insist on having
"Wardella" Brand.

Reg. Trade Mark.

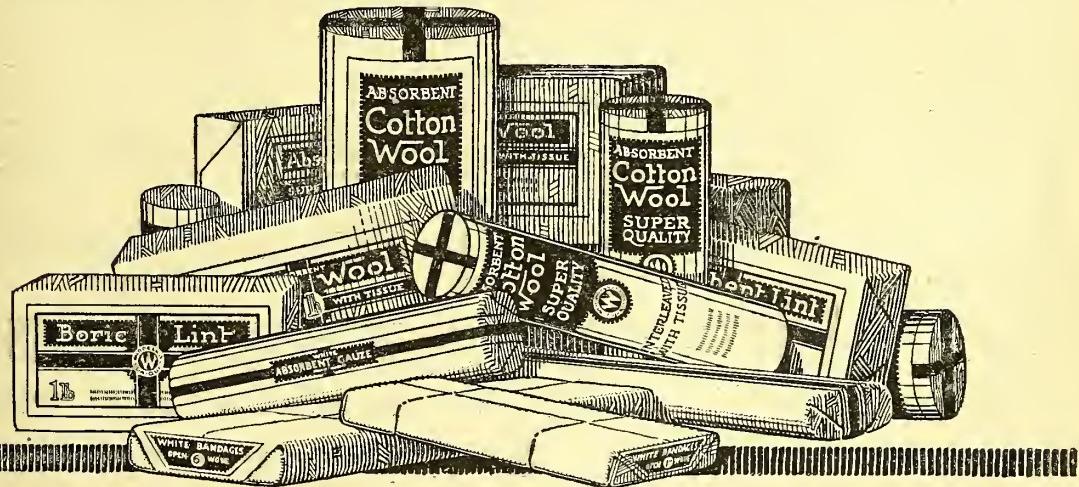
Insist on having
"Wardella" Brand.

WARDELLA SURGICAL DRESSINGS of SUPER QUALITY

WHOLESALE AND EXPORT ONLY

Absorbent Lint, Boric Lint, Bandages, Gauzes, Gauze Tissue,
Cotton Wools, Coiled Wool, Grey Wools, Capsicum Tissue,
Sanitary Towels, Dental Gauzes and Napkins, Hygienic Squares.

BLEACHERS OF BANDAGE CLOTHS, GAUZES, etc.,
TO THE TRADE. Also ABSORBENT COTTON.



THE WARDLE COTTON Co., Ltd., WARDLE, near ROCHDALE.

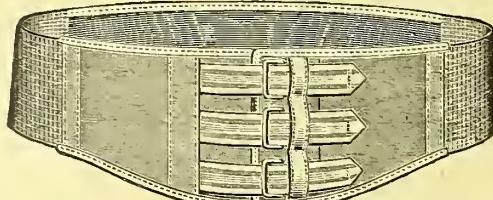
Spinners and Manufacturers from the raw material to the finished product.

LONDON : 9, FORE STREET AVENUE, E.C. 2

SOLE AGENTS for all parts of ASIA, AFRICA, CENTRAL AND SOUTH AMERICA.
AYRTON, SAUNDERS & CO., LTD., LIVERPOOL,
to whom enquiries and orders for "Wardella" Brand goods should be addressed.

THE SURGICAL HOSIERY CO., Ltd.

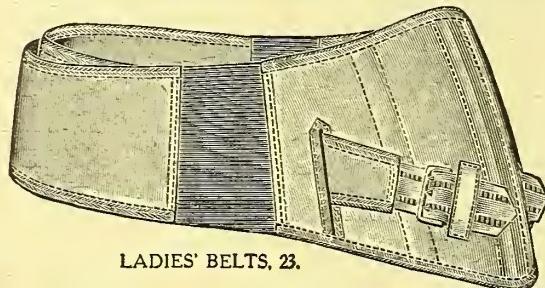
RUSSELL STREET ————— NOTTINGHAM.



GENTS' BELTS, 61. Sateen, with gussets for support.

SURCO SPECIALITIES

Ladies' & Gents' Belts, Suspensories, Braces, Trusses, &c.



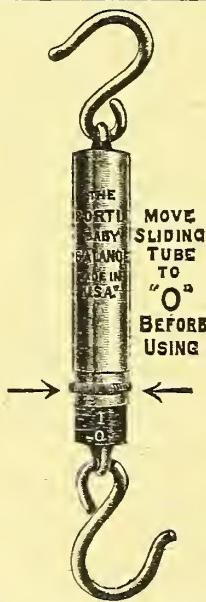
LADIES' BELTS, 23.



HOLD-UP BRACE, 75. For Ladies or Gents.

THE "PORTIA" ADJUSTABLE BABY'S BALANCE

Also complete with Netted String Hammock, Write for Prices.



Obtainable from all Wholesalers.

SOLPORT BROTHERS, Ltd.
184/190 Goswell Road, LONDON, E.C. 1.

Always Accurate.

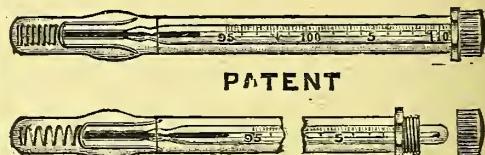
The BEST and the Handiest Portable Baby's Balance.



A. C. COSSOR & SON

Established 1859.

High Class Clinical Thermometers



THE ACCOSON ASEPTIC CLINICAL.

The Thermometer is sterilised each time it is placed in the case, and the markings on the tube are not defaced. Any 4" clinical will fit the case.

Prices on application or can be obtained from all Wholesale Houses. ORIGINAL PATENTEEES OF EASY SET CLINICAL THERMOMETERS. Contractors to all Government Departments.

Accoson Works, Vale Road, London, N.4.

Telephone : Tottenham 1880.

To reach the Housewife.

The Poster on the Delivery Van

is one of the most effective forms of advertising.

For full details write to the originators,

T. B. LAWRENCE, Ltd.,
1 Arundel Street - - - - W.C.2.

Contractors to the leading national advertisers.

THE SOUTH OF ENGLAND COLLEGE OF PHARMACY.
186 CLAPHAM RD., LONDON, S.W.9.

Principal: H. LUCAS, Ph.C., F.C.S.,
assisted by a fully qualified and competent staff.

EXAMINATION RESULTS.

1921 October Examination.	Passes 37 (Minors 25, Part I 12).
1922 January "	Passes 20 { " 16, " 4).
1922 April "	Passes 30 { " 12, " 17)
	Total 87. (Major 1).

N.B.—These passes represent 80% (or more) of the presentation from this college at each examination.

Such results speak for themselves.

A new full time course starts on October 10th. Fee 6 months, 20 guineas; 9 months, 30 guineas. For particulars apply the Principal.

MANY SUCCESSES IN THE EXAMINATIONS!

Your Opportunity to

QUALIFY IN OPTICS

PRACTICAL WORK. Students taking the Course may receive personal tuition in the practical work AT ANY TIME DURING THE COURSE.

Expert Tuition for the SIGHT-TESTING DIPLOMAS of the Worshipful Company of Spectacle Makers (F.S.M.C.); the British Optical Association (D.B.O.A.), or the National Association of Opticians (F.N.A.O.).

Write for full particulars—

C. A. SCURR, M.P.S., F.S.M.C., F.I.O., F.N.A.O., etc.
64 High Street - - - - BARNET

London College of Pharmacy

Principals { H. WOOTTON, B.Sc.(Lond.)
G. W. GOSLING, Ph.C.

Dates of Commencement of Courses:

- Oct. 4th. Nine Months' Course (Minor)
- Oct. 4th Six Months' Course (Minor)
- Oct. 3rd. Three Months' Course (Minor)
- Oct. 3rd. Six Months' Course (Major)
- Nov. 1st. Nine Months' Apothecaries' Hall Course

For Prospectus and Particulars apply to
The Secretary, 361 Clapham Road, London, S.W.9

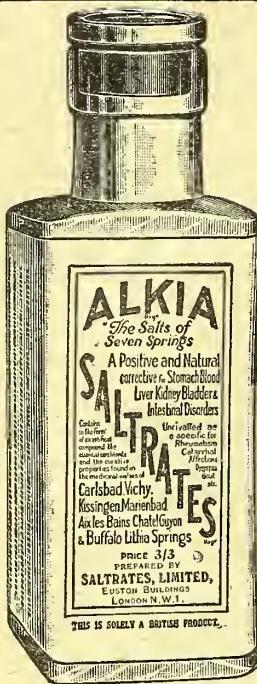
WESTMINSTER COLLEGE OF PHARMACY.

WILLS' UNIVERSAL POSTAL SYSTEM

Fee (British Isles) - - - - £1 - 1 - 0.

For Qualifying, Preliminary and
Apothecaries' Hall Examination.
— Individual subjects may be taken. —

Full particulars from The Principals,
190 CLAPHAM ROAD, S.W.9.



Sells at
3/3 P.A.T.A.

Testimony

Regarding the

ALKIA SALTRATES AND

A Widely Advertised and Quick Selling Saline for LIVER, KIDNEY and RHEUMATIC DISORDERS, GOUT, Etc. Represents the maximum of possible efficiency in a Saline and the best value for the money. There is no trace of any salty, sour or otherwise unpleasant taste.

FROM PROMINENT USERS

The results of using these preparations are so remarkably satisfactory that many hundreds of prominent men and women have very kindly written us in grateful acknowledgment of the wonderful benefits derived. The following are from but a few of the well-known people who have thus written us.

JIMMY WILDE, World's Champion Boxer :—"I am glad to testify to the part your Saltrates fulfil during my training periods. I am never without both and never will be."

GEO. CARPENTIER, Heavy-weight Champion of Europe :—"A teaspoonful of Alkia Saltrates dissolved in a half-tumbler of hot water and drunk first thing each morning I have proved will effectively remove all congestion and impurities from the Liver, Kidneys and Intestines without causing the slightest discomfort or pain. I also find that if a handful of Reudel Bath Saltrates is added to the bath water all aches and pains vanish as if by magic."

JIM SULLIVAN, ex-Middle-Weight Champion and former Army Physical Trainer :—"Alkia soon knocks out liver, kidney, uric acid, or similar disorders. Reudel Baths stop any aches or pains, foot troubles, etc., in no time. Your ad. writer is too conservative."

YOUNG HEALEY, Featherweight :—"I strongly advise all professional boxers to use both Alkia Saltrates and Reudel Bath Saltrates, as I do myself, regularly."

ERNEST BARRY, Holder of World's Sculling Championship, former Sergeant Instructor of Gymnastics in the Army :—"I can honestly state that for sprains or strains there is nothing to equal Reudel Bath Saltrates. The results are always satisfactory. Alkia Saltrates is another simple compound I struck and found very beneficial. A little of this in hot water each morning not only cleanses all impurities from the stomach but it clears the brain and ensures absolute physical fitness."

BOMBARDIER BILLY WELLS, the Popular Boxer :—"While a physical instructor in the Army, I found both Alkia and Reudel to be almost indispensable for correcting and preventing the ills and pains to which Tommies are subject. Personally, I take Alkia regularly, and Reudel is always added to my bath."

JACK DONALDSON, World's Champion Sprinter :—"Alkia has no equal for rheumatic and uric acid disorders of all kinds. One Reudel bath will keep the joints more supple than a dozen Turkish or vapour baths. I could not do without them both."

W. G. GEORGE, World's Champion Runner :—"I have used Alkia and Reudel with remarkably good results. They are wonderful products, as everyone to whom I have recommended them fully agrees."

We have hundreds of similar letters which lack of space prevents our reprinting here. They will be published from time to time in other series of advertisements.

Compounded UP TO A STANDARD (the Highest Possible).

Never DOWN TO A PRICE.

These lines are as near perfection in their respective fields as it is humanly possible to get them, regardless of cost or selling price. *After you make the first sale, they go on selling themselves.*

SALTRATES LIMITED, EUSTON

Extraordinary

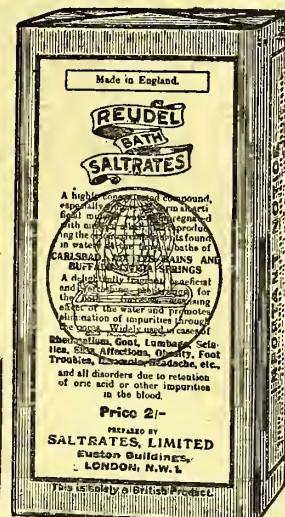
Remarkable effects of

FEUDEL BATH SALTRATES

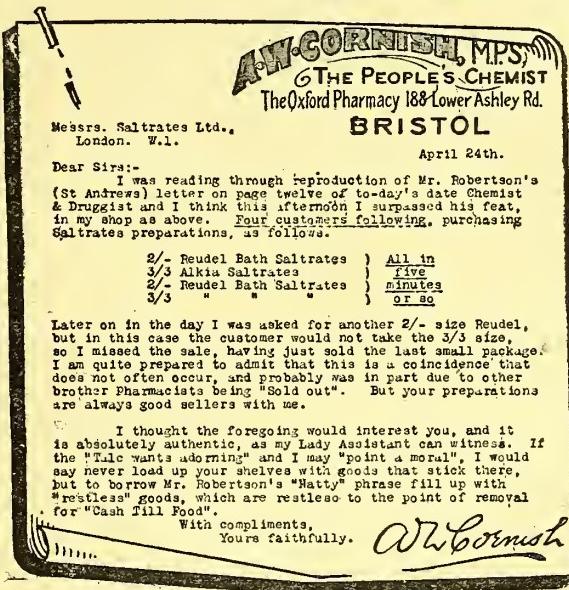
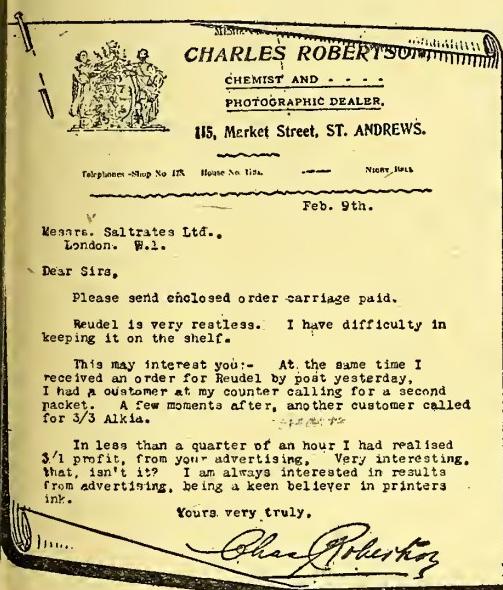
The Best Selling and most fragrant refreshing, and all-round satisfactory preparation for the Bath and for General Toilet purposes. Especially recommended in cases of FOOT TROUBLES, RHEUMATIC PAINS, STIFFNESS, STRAINS, SPRAINS, etc. Always extensively advertised.

FROM THE TRADE

hemists' remarkable testimony. Like Mr. L. D. Lewis of Harlesden and many others, they write us to tell how restless they find their stocks of these two preparations. NOTE.—The following statements were sent to us without solicitation of any kind.



Sells at
2/- and 3/3 P.A.T.A.



YOU CAN STOCK THESE GOODS ON GUARANTEED SALE TERMS.
Carriage Paid in United Kingdom on orders for three dozen, which may be assorted.
Showcards of strong selling power sent free on request.

Write for particulars of our Special Offer of

FREE BONUS. FREE CASES. FREE CARRIAGE.

BUILDINGS, LONDON, N.W. 1.

Collapsible Tubes

**TIN
IS CHEAP.
TRADE IS SLACK.
LABOUR ONLY
IS DEAR.
PRICES ARE MODERATE**

Because our Works are equipped with the most up-to-date labour-saving machinery, and we are content with the lowest margin of profit.

**Bett's & Coll.
1. Wharf Rd., City Rd.
London N.1.**

Established 1857.

You need this Stove in YOUR Stores.

It provides a warm and pleasant atmosphere for your customers and better facilities for your assistants to make sales.

CLARK'S PATENT SYPHON STOVE

generates only PURE HEAT without Smoke or Smell. It can be brought into operation at a moment's notice. Always that inviting and cheerful glow whether used with GAS or OIL. NO FLUE REQUIRED, as all products are scientifically condensed. Highly economical. Can be placed in any position and permanently fixed or merely connected (if used with gas) with flexible tubing as desired.

Our little booklet will interest you, and be sent FREE if you write to-day stating if for GAS or OIL.

**CLARK'S SYPHON
STOVE CO., LIMITED**
164a Queen Victoria St., E.C.4
Works - - Warrington.



Laboratory Fittings and Equipment.



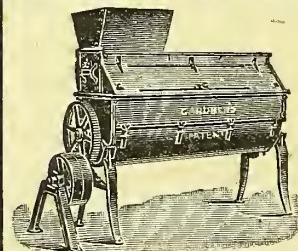
SPECIALITIES : Benches, Fume Cupboards, Stills, Drying Ovens, Gas, Water and Steam Fittings. Electrically Heated Apparatus.

Quotations submitted for the complete equipment and installation of apparatus and plant for Educational Research, and Commercial Laboratories. Lists Free.

Stills, as illustrated, for gas and steam heating, made in sizes from 1 to 12 gallons, per hour. Prices on application.

**BROWN & SON,
ALEMBIC WORKS,
WEDMORE STREET, HOLLOWAY,
LONDON, N.19.**

GARDNER'S PATENT "RAPID" SIFTERS & MIXERS



OVER 6,000

working in almost every Trade where POWDERS are Sifted and Mixed and Lumps Reduced, all being done at one operation and without loss by dust.

FOR HAND OR POWER.

CATALOGUES FREE.

WM. GARDNER & SONS (GLOUCESTER) Ltd.
Engineers, GLOUCESTER.

THE STAMPING AND PRESS TOOL CO., Ltd.

Telephone Richmond 604.
Telegram and Cable Address Stamping, Richmond.
Codes A.B.C. 5th and 6th Edns. Western Union.

WE SPECIALISE IN

High-class Decorated TIN BOXES

FOR WHOLESALE AND
MANUFACTURING CHEMISTS

May we submit designs and quotations?

**STATION WORKS
RICHMOND, SURREY**

PLAIN and
DECORATED
TINS
for all purposes.

WHEATLEY,
DONCASTER.

Telephone: Doncaster 496.
Telegrams: "Canister 496 Doncaster."

SHOWCASES

UPRIGHT CENTRE CASES, WALL CASES,
GLASS COUNTERS, MIRRORS,
WINDOW FITTINGS, GLASS SHELVES,
SHOW STANDS, DRAWERS, DESKS,
CHECK TILLS, &c. Immense Stock.

NEW and SECOND-HAND.
Ready for Immediate Delivery. For Sale or Hire.

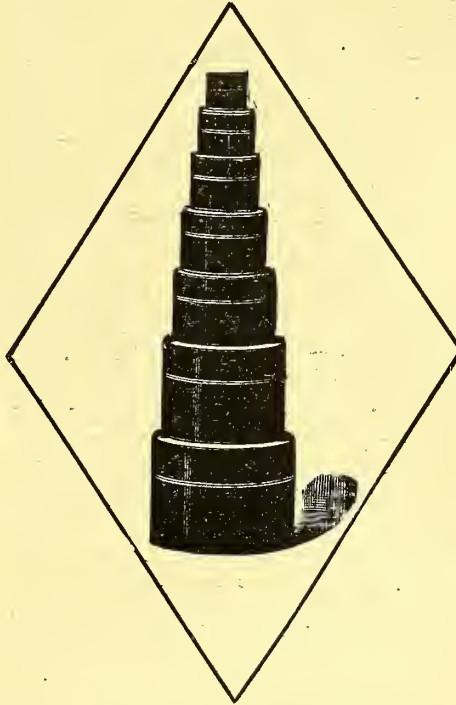
FREDERICK MAUND,
169 Old St., LONDON, E.C. 1.

MENTION

ROBINSONS' MAKE

WHEN ORDERING FROM
YOUR WHOLESALE HOUSE
YOUR NEXT SUPPLY OF

PILL BOXES



BRITISH MADE BY BRITISH LABOUR.

SUPPORT HOME INDUSTRIES.

ROBINSON & SONS, LTD.

BOXMAKERS TO THE
CHEMIST TRADE

CHESTERFIELD.

GRONDARD, MAISONNEUVE & CO.,
City 6358 — 47a Old Street, London, E.C.1.



Sole Agents for
R. FRANCK & CO.
BEST FRENCH
MANUFACTURER
of
PERFUME SPRAYS,
cutglass, engraved
FANCY MODELS.

Mokins' in Stock,
FANCY COMBS.

PRELIMINARY EXAMINATION for PHARMACEUTICAL STUDENTS

The College of Preceptors holds Preliminary Examinations in March, June, September, and December. All the Examinations are held in London, Aherdeen, Birmingham, Blackburn, Bristol, Cardiff, Edinburgh, Glasgow, Leeds, Liverpool, Manchester, Newcastle-on-Tyne, and Nottingham. For the June and December Examinations there are other Centres, including Blackpool, Brighton, Carmarthen, Cheltenham, Croydon, Exeter, Margate, Plymouth, Portsmouth, Sheffield, Southampton, Southend, Southport, Sunderland, Weston-super-Mare, and York. For Regulations apply to the Secretary, College of Preceptors, Bloomsbury Square, London, W.C.1.

BOOKS FOR PHARMACISTS.

Send us a postal card and we will send you a 32 page catalogue of professional and business books for pharmacists, and a copy of

"THE SPATULA"

an illustrated monthly magazine for druggists, full of American snap and enterprise.

THE SPATULA, BOSTON 14, MASS., U.S.A.

GILLETTE BLADES GENUINE U.S.A. MAKE
At 30/9 per box of ten doz., post free.
Cash with order. Enquire for Bargain List.
L. FRANKENBERG,
15 Stoney Lane, Houndsditch, E.1. Phone:
Bank 448.

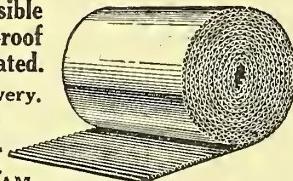
TINS BOXES & CANISTERS
(made in our own works)
at keenly competitive prices.
Let us quote for any kind or size you
need. Or ask for list of STOCK TINS

GOODALL, BACKHOUSE & CO., Leeds.

Corrugated Rolls. Collapsible Boxes. Cartons. Greaseproof Corrugated. Tinted Corrugated.

Keenest Prices. Quick Delivery.
Kindly ask us to quote.

The Guildhall Corrugated Paper Co.
Dept. CH. GUILDHALL BUILDINGS,
NAVIGATION ST., BIRMINGHAM.



Encourage a progressive British industry by recommending the

12 Perfect Blades
in every
doz.



"WATTS"
Safety-Razor
BLADE.

Retailer's 50% on
Profit - Cost

JOHN WATTS
(Dept. 3) Lambert
Works, SHEFFIELD
(Established over 150 years)
London:
24 Redcross St., E.C.1.

They have a super keen-
ness that ensures perfect
separation and makes them
different from and better
than all others.

For Gillette-type Holders.
Retail price 3/6 per doz.

CITY OF LONDON COLLEGE WHITE ST. & ROPEMAKER ST., MOORFIELDS, E.C.2

Department of Commercial Products : Mr. S. J. Duly, M.A.
Instruction in Chemistry for the Qualifying and Major
Examinations of the Pharmaceutical Society is obtainable.

The session begins on September 25.
For particulars apply to Mr. DAVID SAVAGE, Secretary.

GILLETTE (U.S.A.) BLADES—31/6 per Box 5 at 31/- 10 at 30/- 20 at 30/- per Box.

"VALET" Carton for 36/-	Hollow-ground Razors 15/-, 18/-, 24/-, 30/- dz.
7 O'CLOCK, gross for 36/-	Safety Razors, firm 6/- dz. Gillette Brownie, 3/6 e.t.
EV-R-READY", 30/-	Ever-Ready Razors 48/- dz.
CLEMAK, 3 doz.pkt., 9/9	Auto-Strip Models, 6/3, 8/6 dz.
CASH WITH ORDER.	Gillette Shaving Soaps 8/6 dz.
	Nail Clippers, 15/- dz.
	Manicure Sets 4/6 9/-, 15/- dz.
	Scissors 7 6 12/-, 15/- dz.
	Hair Clippers, 3/9 each.

Postage Paid on Orders for £5 and upwards.
LOUIS J. STAMBOIS (Dept. C), 34, Call Lane, Leeds [14]

L I Q U I D : S E E D : D R E S S I N G.
CORVUSINE, D.G.
WONDERFUL SELLING LINE.

Generous Trade Terms from
HAWKER & BOTWOOD, Ltd., GRAYS, ESSEX.

**BRITISH MADE, ROUND AND SQUARE
CARDBOARD BOXES**
for
PILLS, POWDERS, SOAP, OINTMENT,
BOTTLES & CHEMISTS' ADJUNCTS.
Estd. 1850. Wholesale & Export only. Phone: 2505 Royal.
JAMES AUSTIN Ltd. 32 GREAT GEORGE SQUARE,
LIVERPOOL.

ART OF DISPENSING. (9th Edit.) 8/-, by post 8/9.
VETERINARY COUNTER PRACTICE. 7/6, by post 8/3.

CHEMIST'S DICTIONARY OF MEDICAL TERMS. 3/6, by post 3/10.
The CHEMIST & DRUGGIST, 42 Cannon Street, E.C.4

BESORBON

Richard Dickeson & Co.

(Incorporated with Reynolds, Sons & Co., Ltd.)

57-59 CHARTERHOUSE STREET, LONDON, E.C.1.

(Dr. Hill's Formula)

MEDICINAL SNUFF. ABSOLUTELY THE
FINEST REMEDY FOR CATARRH & COLD
IN THE HEAD.

NIGROIDS

Registered Trade Mark

The word "Nigroid" is the registered property of Ferris & Co., Ltd., and represents the product invented and introduced by them.

for the Voice and Throat.

Wholesale terms on application. Nigroids are stocked by all the Wholesale Proprietary Houses.

FERRIS & CO., Ltd., Wholesale Druggists, BRISTOL.**Alcohol for Industrial Purposes
Duty-Free Spirit.***The Industrial Spirit Supply Company, Limited.*

Agents : HONEYWILL BROS., Ltd., 79 MARK LANE, LONDON, E.C.3.

FREDK. FINK & CO.,

10 & 11 MINCING LANE, LONDON, E.C.3.

SPECIALITIES.—Gums Arabic and Tragacanth as Imported or finely powdered.**Pyrogallic Acid Gallic Acid**

Manufactured by J. L. ROSE

At ABBEY ROAD, BARKING, LONDON, E.

Wholesale and Export Only.

**CACHETS "FINOT"**

(White or Coloured)

With inscriptions in any desired tint; also Plain or Embossed.

"A distinction all their own"—C. & D.
"Perfection of Cachets."—Lancet.

These Cachets are especially adapted for Headache, Neuralgia and other powders.

COOPER, SON & CO., LTD., 80 Gloucester Road, SOUTH KENSINGTON.

In 17 Sizes to fit the various types of Cachet Machines.

**PERFUMERY, TOILET ARTICLES,
and SUNDRIES**

by leading British, American and Continental Manufacturers can be supplied in wholesale quantities. Price list on application to

A. B. MEIKLE, Red Lion House, Red Lion St., London, E.C.4.

**SHADEINE
FOR COLOURING GREY HAIR**This popular article is largely advertised and stocked by all Wholesale Houses.
Trial Size 8d., per post 1d.; 1/4 size, per post 1/8; 2/6 size, per post 2/11; 9/9 size, per post 4/6; 8d. size, 6/- doz.; 1/4 size, 12/- doz.; 2/6 size, 24/- doz.; 9/9 size, 85/- doz.

THE SHADEINE CO., 58 WESTBOURNE GROVE, LONDON, W.

**PURE ORANGE WINE
A. MILLAR & CO., Ltd., DUBLIN**

(VINUM AURANTII B.P.)

Prepared in strict accordance with the Formula of the British Pharmacopœia. (Wholesale only.)

Samples from Head Office, Thomas Street, DUBLIN, or London Office, 43 Great Tower Street, LONDON, E.C.3.

PRECIPITATED CHALK

Lightest and Whitest, also Purest Dense

Aug. Levermore & Co., Ltd. 8-10 Gt. St. Helens, LONDON, E.C.3.

Telegrams: "Levermore London." Telephone: Central 4613.

FINE CHEMICALS, Ltd. 40, MARY ST., DUBLIN.INVITE ENQUIRIES FOR
CARRIGEEN (IRISH) MOSS,
FINE CHEMICALS,
HEAVY CHEMICALS.
KEEN QUOTATIONS OFFERED.**ALL CHEMISTS
SHOULD STOCK****ABDINE****THE GOLD MEDAL FRUIT DRINK.**Quick Seller. Big Profits. Over 40 years' Reputation.
"Abdine" is the most popular Health Drink, superior to all Mineral Waters. The Original and only genuine Fruit Drink.
Reduced Price List can be had on application.

DUNCAN McGlashan, Ltd., ABDINE WORKS, WESTFIELD ROAD, EDINBURGH.

Mr. Evan WilliamsALWAYS IN GREAT DEMAND.
PRICE LIST ON APPLICATION.

The EVAN-WILLIAMS Co., Ltd., 18 Ogle Street, W.1.

Mr. Evan Williams**CACHETS**

Chemists who pride themselves on the elegant way they put out their pharmaceuticals in Cachet form should write for samples, price, and full particulars to—

THOS. CHRISTY & CO.,
4/12 Old Swan Lane, E.C.4.

Our Speciality for many years. No finer quality obtainable anywhere. Write to-day.

6



RETAIL PRICE

1/6 per bottle with special sprinkler cap, eliminating waste.

LIBERAL TERMS TO THE TRADE. ADVERTISING MATERIAL ON REQUEST.

Introducing MORTIMER'S CANINE SHAMPOO

The Ideal wash for Dirty Dogs

"YES," says the customer, "Just the thing for my dog." He sees in Mortimer's Canine Shampoo a remedy for the unpleasant odours so disturbing in a household animal. This ideal wash is needed frequently for any healthy out-of-doors dog. It exterminates all parasites, produces a perfect sheen, and imparts a clean wholesome odour to the animal. Harmless to the most delicate coat, its regular use immensely improves the hair.

Effective advertising will popularise Mortimer's Canine Shampoo. A big proportion of YOUR customers are dog-owners, and once they try it you can be sure of regular sales. Write for a sample quantity early, as we anticipate a big demand:

The MORTIMER CHEMICAL CO.
9 Caledonian Road, KING'S CROSS,
LONDON N.1.



Cellophane.

**What
Is It?**

CELLOPHANE

is a transparent film of pure Cellulose, absolutely air, grease, and odour proof, unaffected by cold, heat or moisture, and sterilisable.

An ideal wrapping for Drugs, Tablets, Bath Crystals, Perfumery, Provisions, Sweets, Surgical Dressings, Articles of Toilet, Sponges, etc. etc.

Will keep your Goods, Boxes, Bottles, and delicate Labels clean on the Counter and in Shop Windows, allowing the Articles to be seen by transparency. Can be had colourless, coloured and embossed.

Also in the shape of Labels for Bottles, and Discs for Creams, Ointments, Boot Polish, &c.

Cellophane Envelopes, printed or not.

Agents Wanted where not represented.
Prices, Samples and Particulars from

The CELLOPHANE COMPANY

(GUSTAVE LECLERCQ),

7, 8 & 9 Bird Street, LONDON, W. 1.

Pyramid Policy

THE making of fine Corks is not a secret process—although there are wrinkles. And experience makes a difference! There is one thing that does count. It is this.

PYRAMID CORKS

are better corks because of the Pyramid Policy. We could make cheaper corks and get the same price—but it's not honest. And honesty is the Pyramid Policy. 100% value for money—nothing less—that is what has built this business.

Write for Pyramid Prices and Samples to-day.

N. W. Mitchell & Sons, Ltd.,

"The Cork Men."

Limehouse,

London, E. 14.

TRADE MARK

ESTABLISHED 1880.

A. Ruch & Co.

G. GRANT FORSYTH.
R. BRUCE FORSYTH.
W. FRASER FORSYTH.



GLASS BOTTLES

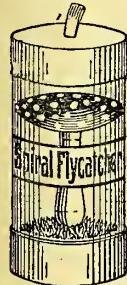
of every description.

ENQUIRIES INVITED

28 Martin Lane, Cannon St., London, E.C. 4.

Telegrams: "Sennock, Cannon, London." Phone: Central 4799.

THE FLYCATCHER OF THE SEASON



MILLIONS SOLD TO DATE.

NOTE PRICES

Retail:

1 Gross 7/- 2 Gross for 13/6
3 " for 20/- 10 " 63/-
Cash with order. Carriage Paid.

Wholesale:

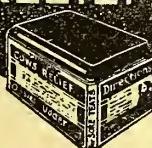
25 gr. cases, 6/- gr. 50 gr. cases, 5/9 gr.
100 gr. lots, 5/6 gr.
All Carriage Paid. Agents appointed.

If any left they will keep good through Winter.

BOOTH & CO., Idle, Bradford.

Every Wise Farmer
Uses

Tippers
COWS
RELIEF



RETAIL PRICES:

3/-, 7/-, 15/-, and
23/- per tin.
Invoiced to the Trade
at
2/9, 6/6, 14/6, and
22/6 respectively,
and subject to 20%
discount.

Carriage paid on orders of
40/- net. Postage charged on
small lots.

B. C. TIPPER & SON,
The Veterinary Chemical Works,
BIRMINGHAM.

BOTTLES

and Glassware
of Every Description
for The Trade

WHOLESALE ONLY

In all colours

MEDICAL FLATS

PANELS

VIALS

POISONS

LYSOLS

LIMES

KALIS

MEXICANS

PERFUMES

FEEDING BOTTLES

&c. &c.

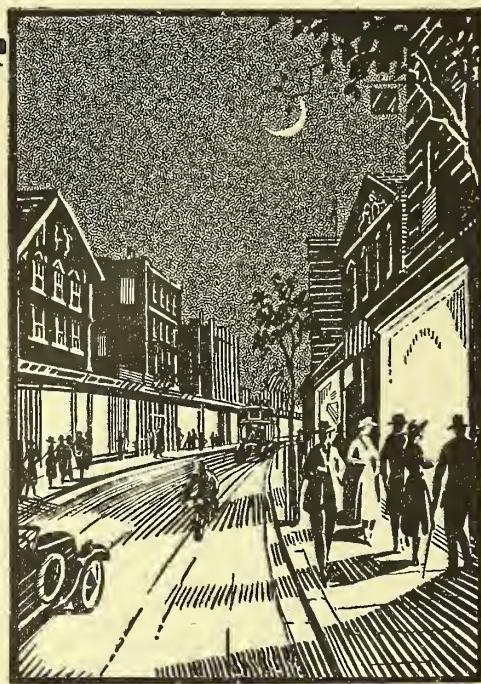


LAX & SHAW

LIMITED.

Albert Glass Works,
Hunslet, Leeds.

BELINDA GLASS WKS. HUNSLET. CLARENCE GLASS WKS. HUNSLET.
TELEGRAMS: FEEDERS, LEEDS. TELEPHONES: 27047, 23080



If they must Shop Early help them to Choose Late!

Make your Window Work Overtime!

Your window can be your best Advertisement—keep it in action when doors are closed, but streets still thronged with possible buyers.

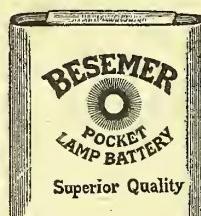
After dusk a well-lighted window will enhance the prestige of your Business, add to the popularity of the thoroughfare, and bring to your counter buyers whose selection is already made.

Electric Light can be turned on or off at any hour by a Clock Switch without any trouble to you.

ELECTRICITY will make the window pay its Rent.

E.D.A.

BRITISH 'BESEMER' BATTERIES



Guaranteed for 6 months if seal unbroken.

All usual styles.

Send for List.

Bulbs. Cases,

Trade - - 7/- doz.
Retail - 10½d. each

50% Profit on Cost.

M. & A. WOLFF
9-15 Whitecross St., London, E.C.1

Telephone :
City 5392 (2 lines).

Telegrams :
"Snail, Barb., London."

'Developrint'

THE DEALER'S SERVICE

Spools developed, perfectly printed, and posted back same day. Enlargements three days. Send trade card for descriptive pamphlet and price list, mentioning "Chemist & Druggist."

GERALD MORRIS
KODAK SPECIALIST
ROCHESTER

**D. AND P.
SERVICE**

For the LIVE KODAK DEALER.
Same Day Return—Finest Results.
PRICES RIGHT—PROFITS RIGHT.
Write for Lists to

WALLACE HEATON, LTD.
Change Alley - SHEFFIELD



A PEEP INTO ARCADY"

Negative taken on a RAJAR "N.S." PLATE (an Iso-late for use without a colour screen) in 1½ secs., at 5/16; print made on RAJAR "Soft" GASLIGHT PAPER Glossy surface.

■ ■

MEM.—The fastest roll-film made is RAJAR—320 H. & D. Fits all standard roll-film cameras.

Your inquiries are invited: full particulars and special terms for Chemists sent by return.

Details of these or other British Photographic Materials can be had from the Sales Department,

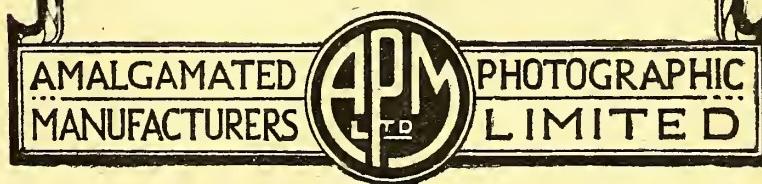
A.P.M., Ltd.,
3 Soho Square, London, W.1.
Phone: Regent 1230 (3 lines).
Wires: "Noiram Westcent, London."

When the Snap-shot Cameras come out for the season, and the big army of Amateur Photographers starts its picture-making campaign, you should be ready with films, plates and papers to meet the demand.



Photographic Materials

have been known to you, and to your customers, for many years; their high reputation for dependable quality and excellent results, backed by the guarantee, make them a safe line to stock.



COLTON PHARMACEUTICAL MACHINERY.

PILL MACHINES

TABLET MACHINES

GELATINE COATERS

GRANULATORS

POLISHING PANS

SUPPOSITORY MOULDS

TRITURATE MACHINES

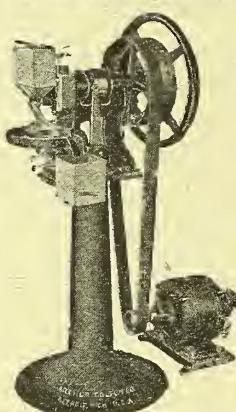
PASTE MIXERS

TUBE FILLERS

CLIP FASTENERS

NICKELOID CLIPS

ETC.



No. 2B TABLET MACHINE.

SOLE
BRITISH
AGENTS

JOHN J. GRIFFIN & SONS, LTD.
KEMBLE STREET, KINGSWAY - - - LONDON, W.C. 2.

GUARANTEED TO CARRY A COMBINED WEIGHT OF 400 lbs.

"GELERT" MODEL C. Tradesmen's Carrier Cycle (STRONGEST ON EARTH). We give you an opportunity of buying the finest Carrier Cycle made, at NEAR COST OF PRODUCTION.

Built to the order
of Messrs. DEAR
& MORGAN
(Special Appointment
to King
George), Cowes,
I. of W.



Originally £18 18s.,
now offered at....

£12 10s. Cash,

with our well-known Guarantee, complete with Basket, two Nameplates lettered in two colours to your own design or specification, and sent Carriage Paid.

This is our best Model, and is assembled with the finest component parts to be had on the market for strength and durability, irrespective of price. It has been designed and built to combat the abuse given it by the average messenger boy, and includes many improvements not shown on any other Carrier Cycle, i.e.—Double Front Forks, Motor Fork Crown and Front Hub, Wheels built up with Heavy Gauge Unbuckable Rims and Piano Wire Spokes.

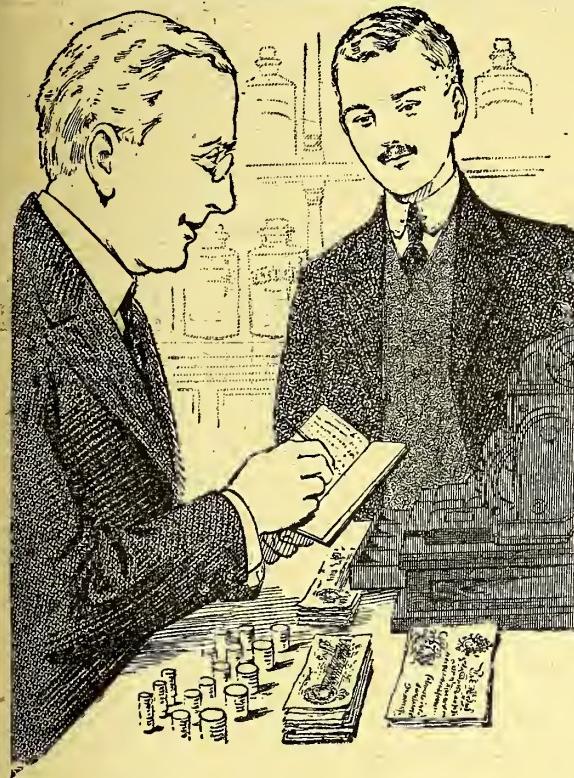
TUBULAR CARRIER BUILT ON THE FRAME WITH SOLID STEEL LUGS. (Independent Steering.)

SPECIFICATION:
FRAME.—Special Heavy Gauge Tubing, mitred and pegged.
FORKS.—Duplex Heavy Gauge for Carrier work. TYRES.—Warwick, Clipper, or Bates' Heavy Carrier. BRAKES.—Front and Back Rim Roller, with fixed attachments. B.S.A.—Free Wheel and Coventry Chain. FRONT CARRIER.—Weldless Steel Tubing and built as part of the frame.
WHEELS.—26 by 1½, Enamelled Rims (heavy gauge).
SADDLE.—Lygett L22, Girder Enamelled. FINISH.—Enamelled all Black, but Plated parts can be had if required.

OUR GUARANTEE.—We will allow you 7 days after receipt of Cycle to give you an opportunity of testing it, and should it not be up to your expectancy send it back, and your money will be promptly returned, together with amount of return carriage.

FREDERICK LLEWELLYN & Co.,
Litherland Works, Litherland Road, Bootle, Lancs.

Contractors to the largest buyers of Carrier Cycles in the United Kingdom,



AT THE END OF THE DAY

"Another good day in the photographic department?"

"Yes, sir. I find it pays to display 'TABLOID' Photographic Chemicals prominently.

Customers are quick to recognize the bright yellow cartons and are very definite about the quality of their contents."

That is why

TRADE
MARK **'TABLOID'** BRAND
PHOTOGRAPHIC
CHEMICALS

ABRIDGED LIST

'TABLOID' RYTON'	
21/- per doz.	Universal Developer
'TABLOID' TANCOL'	
21/- per doz.	Developer
'TABLOID' CHROMIUM	
12/- per doz.	INTENSIFIER
'TABLOID' SEPIA	
24/- per doz.	TONER
'TABLOID' GREEN	
24/- per doz.	TONER
'TABLOID' BLUE	
24/- per doz.	TONER
ETC.	

(Subject to usual terms)

are the best stepping stones to repeat orders, regular customers, a quick turnover and good profits.

Ask for particulars of our new and beautiful photographic window display.



BURROUGHS WELLCOME & CO., LONDON

Send your Next Tablet Order to



Every Preparation Listed on this page is manufactured entirely in our Works at Cheltenham.

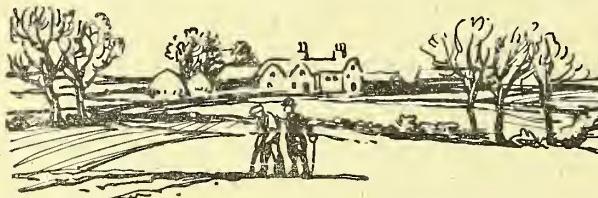
Modern conditions of manufacture and strict Analytical Control ensure absolute purity and standardisation.



The United Chemists' Assn., Ltd., Cheltenham.

DRUGS	Per 1,000	Per dozen bottles of		
		25	50	100
Ammoniated Quinine, s/c $\frac{1}{2}$ drachm	6/0	4/6	7/0	10/6
" " " I "	10/6	5/6	9/0	16/6
Aspirin, 5,000 at 3/9, 10,000 at 3/6 ... gr. 5	4/0	3/3	5/0	7/6
Cascara Sagrada s/c gr. 2	3/3	3/0	4/6	7/0
Dover's Powder gr. 5	7/6	4/9	7/9	12/6
Easton's Syrup s/c $\frac{1}{2}$ drachm	7/6	4/6	7/0	12/0
" " " I "	11/6	6/0	10/0	17/6
Laxative Vegetable	7/0	5/0	7/6	12/6
Phenacetin gr. 5	7/6	5/0	7/6	12/6
" Co.	9/6	5/3	8/9	15/3
Potass. Chlor. per lb. 1/8, 7 lbs. at 1/6 ... gr. 5	1/3	2/9	3/6	4/6
Quinine and Cinnamon	7/6	5/0	8/0	12/6
Soda Mint per lb. 1/3, 14-lb. lots at 1/0 ... gr. 5	1/0	2/6	3/0	4/3

Terms Nett. Order to value of £5 and upwards Carriage Paid.



Farmers, Gardeners & Smallholders are demanding "IALINE" preparations, and the extensive publicity campaign which we are running is daily creating fresh demands.

Are you ready to supply the public's needs?

If you are not already stocking "IALINE" preparations—then write for trade terms, samples and literature at once.



We also invite applications for high-class Agencies.



PREPARATIONS

for
AGRICULTURE &
HORTICULTURE

**'IALINE' INSECTICIDE
POWDER and 'IALINE'
SUMMER WASH**

are two most profitable and quick-selling lines.

In order to assist our Trade friends, we are supplying new and attractive literature on which each individual customer's name and address is printed, together with showcards for window or counter displays.

Burt, Boulton & Haywood, Ltd.
Salisbury House - LONDON WALL, E.C.2

Telegrams: "Burboul, Ave, London." Cables: "Burboul London." Codes: ABC (5th Edit.); Lieber's; Western Union; Bentley's.



A WEEKLY JOURNAL OF PHARMACY AND OF THE CHEMICAL AND DRUG TRADES

THE CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official organ of the Pharmaceutical Society of Ireland, the Chemists' and Druggists' Society of Ireland, and of other Chemists' Societies in the Overseas Dominions.

SUBSCRIPTION RATE

TWENTY SHILLINGS a year payable in advance to any part of the world, including a copy of *The Chemist and Druggist Diary*. Subscriptions may begin with the first issue of any month. Single Copy, 9d., post free; *Diary*, 10s., post free. Postal orders and cheques should be crossed "Bank of Liverpool and Martins, Ltd."

Prix de l'abonnement annuel : le journal une fois par semaine, et l'agenda une fois par an, 20s., francs.

TERMS FOR ADVERTISING may be obtained on application to the Publisher.

Head Office : 42 CANNON STREET, LONDON, E.C.4

Telegrams: "Chemicus, Cannon, London." Telephone: Central 3617 (3 lines).

Branch Offices: 49 County Buildings, 4 Cannon Street, Manchester. (Telephone: City 52). Melbourne and Sydney, Australia.

Contents

No. 11

Series 2224

Vol. 97

PAGE	PAGE		
Association Affairs	367	French News	359
Business Changes	370	Gazette	361
Cape Pharmacy Board ..	360	Glass Bottles Decision ..	363
Chemists' Dental Society	364	Information Department	370
Coming Events	365	Irish News	359
Confederation's Exhibition	366	Liverpool Health Report	361
Correspondence :		Marriages	368
Letters	386	New Companies and	
Dispensing Notes	387	Company News	361
Legal Queries	387	Observations and Reflec-	
Miscellaneous Inquiries	388	tions	371
Deaths	363	Personalities	359
East Indian Sandalwood	378	Pests in the Pharmacy ..	375
Editorial Articles :		Pharmacy in Canada ..	366
Depression in Seed Oils	372	Raw Material in Burma	376
Uses of Methylated		Retrospect	388
Spirit	373	Scottish News	359
Franco-Hispano Treaty	374	Shellac Inquiry	378
German Reparation		Stock Exchange Prices ..	362
Dyestuffs	374	Trade-marks	377
Food Colourings	374	Trade Notes	370
English News	357	Trade Report	380
Etymology of "Pharma-		Wills	369
cist"	375		

Known, Admitted, and Approved Remedies

FOLLOWING the practice which we started some years ago we propose to reserve space in the forthcoming issue of *The Chemist and Druggist Diary*, 1923, for the registration of formulas for "known, admitted, and approved remedies." Under the Medicine Stamp Act, 1812, such medicines, when sold by chemists, are exempt from medicine-stamp duty so long as the formulas are contained in recognised works of reference and proprietary rights are not claimed. A clear indication must be given, on the label of the medicine, of the published formula as evidence that the medicine is of the kind to which the exemption refers. *The Chemist and Druggist Diary* was the first book of reference recognised by the Board of Customs and Excise, after the British Pharmacopoeia, and the *Diary*, being published periodically, affords an exceptional opportunity for chemists to add any fresh formulas for medicines coming within the definition of "known, admitted, and approved remedies." Chemists who desire to take advantage of this arrangement should forward true copies of the formulas with the titles and directions for use so that we can include these in the *Diary*. We shall attach the correct reference numbers to the formulas when they are published. The formulas, which must be written on one side of the paper only, should be sent **not later than October 14**, addressed to the Editor, C. & D., 42 Cannon Street, London, E.C. 4.

English and Welsh News

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections.

Dangerous Drugs Act

The Home Secretary gives notice that he has withdrawn from Dr. Sidney Robert Walker, M.R.C.S., L.R.C.P., late of Beech Grove, Ripon, the authorisation granted by the regulations under the Dangerous Drugs Act, 1920, to duly qualified medical practitioners to be in possession of and supply raw opium and the drugs to which Part III. of the said Act applies.

Any person supplying Dr. Walker with raw opium or any of the drugs to which Part III. of the Act applies will be committing an offence against the Act.

Dental Board

Applications for registration have been received from the following persons on the grounds that they are pharmaceutical chemists or chemists and druggists, and that immediately before July 28, 1921, they had a substantial practice in dentistry, in the course of which they personally performed such operations and gave such treatment, advice and attendance as are usually performed and given by dentists. Any objection to registration must be lodged within one calendar month from September 1, and must be supported by evidence sufficient to show a *prima facie* case against registration:—

Barker, George, High Street, Hampton-on-Thames.

Bruce, William, Charing Cross, Larkhall, Lanarkshire.

Furnivall, James Frederick, 185 Torridon Road, Catford, S.E.

Garry, Walter Finch, 9 Tulse Hill, Brixton, S.W.

Johnston, Edward, Thoroughfare, Harleston, Norfolk.

Potter, Thomas Burbidge, 29 Nottingham Road, Nottingham.

Smith, Thomas Ashworth, 4 Sion Street, Radcliffe, Lancs.

Tidswell, Foster, 79 Vivian Road, Fenton, Stoke-on-Trent.

Watts, Ernest George, 21 Pearl Street, Roath, Cardiff.

Wood, Wm. Frost, 114 Dame Agnes Street, Nottingham.

Poisonings

The following cases of fatal poisoning, among others, have been recorded since our last report:—

At Maidenhead, Mr. F. Buckran, late a lieutenant in the Army, committed suicide by taking potassium cyanide while of unsound mind.

Lysol was the poison selected by Miss Edith H. Horton, a Birmingham headmistress, who at an inquest was found to have taken her own life while of unsound mind.

An inquest was held at Fakenham, on September 6, on the body of Mr. John Bee, veterinary surgeon. A medical witness stated that the deceased came to him and said he had taken several veterinary hypodermic tablets of cocaine in mistake for aspirin. In witness's opinion there were no signs of cocaine. He gave an emetic, which acted. A bottle produced contained tablets which only veterinary surgeons used. He had seen the body, and was of opinion that deceased died of convulsions and respiratory failure as the result of accidentally taking cocaine tablets in mistake for aspirin tablets. A verdict was returned in accordance with the medical evidence.

British Association

The nineteenth annual meeting of the British Association for the advancement of science opened at Hull on September 6, and closes on September 13. The inaugural address of the President (Professor Sir Charles Sherrington, G.B.E., Pres. R.S.), was devoted to "Some Aspects of Animal Mechanism." Among the subjects for papers in the chemistry section are:—"The Preparation and Constitution of Synthetic Fats containing a Carbohydrate Chain," by Dr. Helen S. Gilchrist; "A New Type of Nitrogenous Sugar Derivative," by Mr. John Pryde; "The Crystalline Structure of Organic Compounds," by

Professor Sir William Bragg; "Valency and Polarity in Organic Compounds," by Professor R. Robinson; "The Hydrogenation of Fats," by Dr. E. F. Armstrong; and "Post-War Progress in the Fixation of Nitrogen," by Dr. J. A. Harker. The botany section includes such topics as:—"The Transport of Organic Substances in Plants," by Professor H. H. Dixon; "Photosynthesis," by Professor E. C. C. Baly; "The Meaning and Evolution of Some Floral Characters," by Professor J. McLean Thompson; "The Meiotic Phase in the Salicaceae," by Miss K. B. Blackburn and Dr. H. Harrison; "Somatic Chromosomes," by Mr. W. C. F. Newton; and "Etiolation," by Professor J. H. Priestley and Dr. J. Ewing. Popular lectures are also included, as usual, in the programme.

Birmingham

The batting and bowling averages of the Warwickshire County Cricket Club show that Mr. R. G. Baynton, son of Mr. C. S. Baynton, chemist and druggist, occupied the eighth position in the former and the seventh in the latter.

It is proposed to present Mr. F. R. O'Shaughnessy, who recently retired from the secretaryship of the local section of the Society of Chemical Industry (*C. & D.*, I., 1922, p. 506), with a testimonial in recognition of his services during the past seventeen years. The presentation is to take place at the opening meeting of the next session.

Liverpool

Lord Leverhulme has promised to address the Liverpool Chemists' Association at the Royal Institution on October 11. The lecture-hall has been retained by the secretary.

A correspondent points out that the mother of Mr. Harold Barton, Southport, whose death was announced in our last issue, married twice, her latter name being Rawesthorne.

At Liverpool Police Court, on September 6, Manolis Camminis, boarding-house keeper, and Elias Leasevis were charged on remand with being in unlawful possession of eight "bottles" of cocaine. Camminis was sentenced to six months' imprisonment and recommended for deportation, and Leasevis to four months' imprisonment.

In the Liverpool Pharmacists' Club's first ramble from New Brighton to Hoylake nine members and lady friends took part. The morning was unpropitious, but the afternoon was enjoyable.

On September 10 the second ramble will have Thurstaston as its destination. For September 20 a dance is fixed at the Falcon (late Fellowship Club), Lord Street. A football team is being promoted by Mr. H. C. Tristram, 64, Whitechapel (Burgess & Co.).

At Wallasey, on September 1, two grocery firms were each fined 5s., with £1 16s. costs, for having sold borax containing respectively 350 parts and 60 parts of arsenic per million. The following passage from the cross-examination of one of the defendants by the deputy town clerk (Mr. Emrys Evans) is of

interest:—Mr. Evans: You sell Epsom salts, cream of tartar, tartaric acid, and glycerin. For what purpose?—For cooking and medicinal purposes.—Why draw a distinction in the case of borax?—We do not expect them to come to us for borax to be used for medicinal purposes.—Why not label the borax properly?—We never have labelled it.



Right to left:—Mr. W. J. Tristram (President of the Liverpool Pharmacists' Club) and Mr. F. A. Boggiano (Secretary).

Manchester

Mr. T. A. Stansfield, manufacturing chemist, has removed from 303 Stockport Road to 14 Broom Lane, Levenshulme.

The temperately worded protest of the Salford chemists against the new Insurance scale of payments (*C. & D.*, July 15, p. 94; September 2, p. 349) was presented to the Insurance Committee by Mr. W. F. Cuttiford, who supported it by statistics collated from various businesses. The Pharmaceutical Committee believes the method adopted to be more effective than any individual protest can be.

Students of the Manchester School of Pharmacy are eagerly awaiting the announcement of the next *C. & D.* analytical tournament. This year's students are hoping to be as successful as those of last winter, when thirteen of the fifteen prizes, including the first three places in the tournament, were won by competitors from the School. The principal (Mr. H. Brindle, B.Sc.) is an old *C. & D.* tournament first prize winner; and Messrs. Critchley, Buckley, Parker, Robinson, Howarth, Eccles, Ralph and Raine are among the local students who have been awarded prizes.

Nottingham

Lack of purchasing power is making trade very quiet. Many local pharmacists have been doing less business within the past two months than is usual at this time of year. The past season has been one of the worst on record for the sale of salines and cooling drinks.

Mr. F. Ross Sergeant, whose temporary premises are in Exchange Row, is hoping to move within a few weeks into a handsome block of buildings now in course of construction at the corner of High Street and Cheapside. Conference visitors will remember noticing the site.

Miscellaneous

HORSE PARADE.—At a pageant at Oswaldtwistle on September 2 the first and second prizes for the neatest decorated horses were won respectively by W. Blythe & Co., Ltd., and W. Metcalf, Ltd., manufacturing chemists, Church, Accrington.

ALIENS RESTRICTION (AMENDMENT) ACT, 1919.—Exemption under Section 7 of the Aliens Restriction (Amendment) Act, 1919, has been granted to the Mylax Association (partners, William Harold Upjohn, Harry Howard Freeman, "manufacturing pharmacists"), Granville House, Arundel Street, Strand, London, W.C.2.

RAMSAY MEMORIAL TABLET.—H.R.H. the Prince of Wales, who is patron of the Ramsay Memorial Fund, has consented to unveil on November 3 the memorial tablet to the late Professor Sir William Ramsay which is being placed in Westminster Abbey. The tablet has been executed by Mr. Charles L. Hartwell, A.R.A., and was exhibited at the Royal Academy this summer (*C. & D.*, I., 1922, p. 595).

IN THE COURTS.—At Wimborne, recently, Charles Wigby, Kinson, was summoned at the instance of the Royal College of Veterinary Surgeons for having described himself on boards attached to trees in his garden as "late sergeant vet., R.A.V.C." The summons was dismissed on payment of 4s. costs, the defendant undertaking to withdraw the boards and not to repeat the offence.—At Swansea, on August 28, Abdal Hassan, ship's fireman, was sentenced to six months' imprisonment for being in unlawful possession of 100 grams of cocaine.

THEFT CHARGES.—At Burton-on-Trent, recently, William C. Welton was sentenced to fourteen days' hard labour for the theft of a camera from the shop of Francis Hallam, Ltd., chemists, 22 High Street. Mr. Wilfrid Lean, Ph.C., a director, and Mr. W. E. Stokes, chemist and druggist, an assistant of the company, gave evidence; and it appeared, owing to local dealers in photographic materials having been notified, that the camera was soon identified when offered for sale by the accused.—At Southend-on-Sea, recently, a youth named Le Saux was committed for trial on a charge of stealing a pair of prismatic glasses, value £7 7s., the property of Mr. Sidney F. Body, chemist and druggist, High Street.

Irish News

Pharmaceutical Society of Ireland

The latest dates for lodging applications for the October examinations are as follows: Thursday, September 21, or the Preliminary examination; Tuesday, September 26, or the Registered Druggist examination; Wednesday, September 27, for the Pharmaceutical Licensure examination; Tuesday, October 3, for the Pharmaceutical Assistant examination. Intending new candidates for election to seats on the Council must send their nomination papers to the Registrar by 12 noon, September 18. Each candidate must notify that he will serve if elected.

Brevities

Mr. John W. Burns, Ph.C., has been appointed temporary compounder at Dublin Workhouse at a salary of £4 a week.

Lieut. Leahy, of the Free State Army, who has been badly wounded in an ambush by Irregulars, was formerly an assistant in the pharmacy of Mr. Sheil, Ph.C., Tullamore.

The residence of Mr. A. N. Jones, J.P., Ph.C., Newtoun Park, Doneraile, was burned by Irregulars on August 15. The loss is over £25,000. Some months ago Mr. Jones's motor cars were seized.

Londonderry

A guessing competition organised by Mr. H. E. Young, Ph.C., The Strand Pharmacy, Londonderry, proved a great success. Almost four thousand entries were received. In addition to the first and second prize-winners, eight entrants have each been presented with a third prize.

Mr. Arthur E. Dickson, Ph.C., Waterloo Place, was presented recently with a handsome coffee set, suitably inscribed, from his colleagues in the trade, on the occasion of his marriage. Mr. W. G. Mitchell, Ph.C., who made the presentation, referred in eulogistic terms to Mr. Dickson's services as secretary of the Londonderry Chemists' and Druggists' Association.

Scottish News

Brevities

Some of the photographic chemists in country towns have effective window-shows of views of their respective localities, instead of the usual stock-show-cards.

Mr. A. Macpherson, 79 Gartside Street, Glasgow, is the representative in Scotland of Adrs. de Haas, jun., sponge importer, 38 Charterhouse Square, London, E.C. 1.

Edinburgh

The autumn holiday will be observed on September 18.

Edinburgh Chemists' Golf Club will hold a competition for the Mackay trophy and special club prizes over Longniddry course on September 13. The morning train leaves at 9.5 a.m. Competitors arriving for the afternoon will play off about 2.30 p.m. For these players a special golfer's ticket is available. Intending competitors should notify the secretary, Mr. J. Finlay, 302 Morningside Road, not later than the first post on September 11.

Glasgow

The next rink game of the bowling section of the Glasgow Pharmacy Club will be played on Titwood bowling green on September 12.

Claims for damages at the instance of four parents of children affected by poisoning through having picked and eaten pods from a laburnum tree in the Cross Park, Partick, have been intimated against the Corporation, the proprietors of the park.

OUR D. D. A. CARD FOR MEDICAL MEN.—"The Lancet" of September 2 says:—"THE CHEMIST AND DRUGGIST (42 Cannon Street, London, E.C.4) has printed and copyrighted a useful card summarising the regulations of the Act as they apply to prescribers, and setting out clearly the limits of dilution which bring any prescription within the scope of the Act."

French News

(From the "C. & D." Paris Correspondent.)

THE NUMBER OF PHARMACISTS represented by local associations affiliated to the "General Association," the representative corporation of French retailers, is now 8,410. This is the highest figure yet attained since the formation of the General Association.

THE EIGHT HOURS ACT as applied to pharmacies in towns numbering over 5,000 inhabitants is now practically accomplished. Thanks to mutual concessions, there has not been a large number of complaints, either from the employers or the Government officials. The fact that eight hours' actual work in a pharmacy requires an attendance of an hour or two longer having once been admitted by the authorities, a little goodwill on the part of employers and employees which was still necessary appears in almost every case, and a reform apparently impossible in such a special business has been quietly secured.

M. FOURNEAU has published a treatise on the preparation of organic medicaments, which was presented to the Paris Society of Pharmacy (of which he is a member) at a recent meeting by M. Tiffeneau. The volume is practically a reproduction of the lectures and demonstrations given by M. Fourneau at Madrid in 1917. The principal questions of modern pharmacology are explained, and the author's personal opinions on the present and future of chemico-therapeutical problems are given. The practical portion describes the preparation of several hundred organic remedies or their intermediaries. All the processes described were actually performed by the author and his pupils at Madrid.

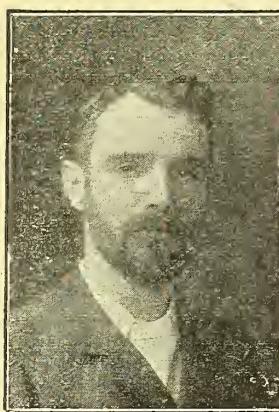
THE INTERNATIONAL UNION OF CHEMISTRY.—Professor Mourau gave the Academy of Sciences some details of the Third International Conference of Pure and Applied Chemistry recently held at Lyons. Twenty-four nations were represented. The questions discussed included the elements of chemistry, nomenclature, physico-chemical standards, industrial property and factory hygiene. The Union has been founded to study, and report on, the great general problems of this science. The President of the Union is Sir William Pope; Vice-President, Mr. Beaucraft (U.S.A.); general secretary, Jean Gérard. Three other members, MM. Büllmann (Denmark), Paterno (Italy), and Voltocék (Czecho-Slovakia) complete the bureau.

THE CLUE.—In a Parisian bar a detective recently noted a group of men who, after chatting with the proprietress, left the premises without paying for their drinks. He reported the incident, and later six young men employed in Piot, Lemoine and Royer's pharmaceutical warehouse were arrested. They confessed that for several years past they had booked orders for delivery, but had abstracted a portion of each consignment. The pharmacists complained of the shortage, and the wholesale house sent on the "missing" articles. About 20,000 fr. worth of goods was thus procured, which the proprietress of the bar purchased at wholesale prices and sold to her clients below the retail price. Some 2,000 fr. worth of unsold stolen goods was discovered.

PRIEST v. PHARMACIST.—A priest who had invented a "tisane" (herb tea) sold his commercial rights to a pharmacist in the Boulevard Sébastopol, who advertised and pushed the product. This pharmacist hired a private letter-box at the General Post Office, and the large correspondence there received included a certain number of letters addressed to the "Abbé X." The priest and pharmacist having some differences of opinion, the former formally forbade the Postmaster "to deliver to another person letters bearing his name." The pharmacist objected to what he considered an undue interference with his legitimate business, and summoned the Postmaster-General and the priest before the Courts. The magistrate nominated a "sequestrator," whose business will be to sort the letters, to remit to the Abbé any private correspondence, and to leave the business letters in the pharmacist's hands.

Cape Pharmacy Board

A GENERAL MEETING of the Cape Province Colonial Pharmacy Board was recently held in the Board Room, Cape Town. There were present : Messrs. J. Parry, J. McJannet, G. R. Cleghorn, J. H. Carter, J. Main, G. Darroll, Dr. W. Darley-Hartley, and the secretary. This being the first meeting of the newly-constituted Board, Dr. Darley-Hartley was nominated, by unanimous vote, to take the chair pending the election of a president.—Letters from the secretary for Public Health notifying the nomination of Messrs. Darroll, McJannet and Main and the election of Messrs. Cleghorn, Parry and Carter as members for the ensuing three-year period, were read and recorded, together with a letter



MR. G. DARROLL

from the Colonial Medical Council, notifying the nomination of Dr. Darley-Hartley as its representative for the same period.—The chairman then called for nominations for the Presidency, and Mr. Parry moved, and Mr. Cleghorn seconded, that Mr. Darroll be elected. There were no other nominations, and Mr. Darroll was declared elected by unanimous vote. On taking the chair, Mr. Darroll briefly expressed his thanks to members for the honour which they had conferred upon him. He moved that the letter addressed to Mr. Walsh, the late President, by all the members of the old Board after the close of the last general meeting, to mark their appreciation of his long and valuable services both as member and as president, be formally recorded. Mr. Parry seconded, and the motion was carried unanimously.—Before proceeding further with the business before the meeting, Mr. Darroll said that he had pleasure in extending, on behalf of the older members, a hearty welcome to those members who were taking their seats on the Board for the first time at this meeting. Upon the motion of Mr. Parry, seconded by Mr. Cleghorn, it was resolved that the Executive Committee should consist of the whole Board.

Sale of Dagga by a Capetown Chemist.—This chemist's reply to the letter addressed to him in terms of a previous resolution was read, together with the secretary's report of the inspection of his register of poisons sales. After discussion, it was resolved that the President and secretary should wait upon the secretary for Public Health and lay the case before him with a view to such action being decided upon in the matter as would commend itself to the Government and at the same time meet the views of the Board; the preliminary steps in any action to be taken after the above interview to be left in the President's hands.

Case of Rex v. A. K. Abdurrahman.—A letter from the chief Health Officer for the Union, forwarding a résumé of this case, and intimating that an inquiry was being held by the Transvaal Pharmacy Board, was read. It was resolved that before taking any action in the matter the result of the Transvaal Board's inquiry should be ascertained.

A letter was read from the Superintendent-General of Education suggesting that the Board should consider the acceptance of the Departmental Junior Certificate Examination as an equivalent of the University of South Africa junior certificate examination for the purposes of section 17 of the rules and regulations relating to examinations. After consideration of the syllabus and scope of the examination, it was resolved to reply that the acceptance of the certificate referred to is already provided for, on certain defined conditions, in paragraph (c) of the section quoted.

Impressions of Pharmacy in Canada

An Englishman lately arrived in Canada gives his first impressions of pharmacy as carried on in the far west of the Dominion.

THE most important matter to note in the conditions of the Canadian drug-trade, as seen by a freshman, is that our qualification is almost as nothing here. It is reserved for British Columbians—it is from the Far West that I write—to dispense and sell poisons unless one sits for the provincial examinations; but by the payment of ten dollars and the production of proper credentials as to curriculum and examinations, nationality and moral character, one may be honoured by registration as a drug "clerk" and take one's place in the ranks of the profession. If, by reason of great wealth, one chooses to pay another twenty dollars, and by faith submit oneself to the British Columbian examining board, one may perhaps become a Licentiate of Pharmacy, capable of blazoning "Drugs" over a shop-front, and as other attractions displaying "Prescriptions," "Stationery," "Tobaccos," "Candy," and, mayhap, "Fishing Tackle," "Toys," "Ice Cream," and "Soda Fountain." One might almost say, with the shades of Jacob Bell, Peter Squire, and other pioneers hovering round, that the pharmacist from the old country would receive a considerable shock, and be some time getting over it. Going into one of the chief pharmacies, sitting at the refreshment counter with an ice cream and a snack in front of one, and looking round at the other well-regulated departments, with their well-dressed assistants on the alert for business, one realises that it is salesmen who are wanted here. The familiar fittings of an English pharmacy are entirely absent—no shop rounds, no glorious carboys, show-cases, nor fixtures. Yet one may be wrong (and in this case is), for away from all the turmoil, in a glass-protected office, is a well-ordered pharmacy, where the business of "filling" prescriptions is carried on with as much care as in England, free from the interruption of the customer, with his fads and fancies.

The selling of anything and everything does not appear to affect professional standing to any great extent. I noted that one pharmacist, whose dispensary was the eighth section of his frontage, had displayed in his window, in very large type, "Your druggist is more than a merchant"; but I could not help wondering whether the druggist was not snowed under by his merchandise. It is so the world over. There is one pharmacy here, the "Georgia," which caters for its visitors—many British. It bears some little semblance to a Buxton pharmacy of note, and is conducted on very high-class lines, as also is a pharmacy in the Vancouver block, "Burns" which had a most professional window-show of raw drugs and preparations, made and in the making, and of chemicals from the ends of the earth. The Vancouver City pharmacies are nearly all run by limited companies, and only one eschews the refreshment business, much to the better appearance of its shops. One comes across the individual pharmacist in the suburbs, and he runs his place in much the same way as the companies. One proprietor announces: "I make 75 patent medicines," and in the next window has a good display of fishing-tackle and accessories. I was lately struck by "dollar day," when the price of everything was a dollar, and remarkably good bargains many were. The drug merchants go one better, and have a half-price sale.

The title "Doctor" appears to be very cheap. "Chemist" is very rarely seen, and "dispensing chemist," so familiar at home, I have never noted. There does not appear to be any manufacturing of specialities carried on actually in the pharmacies, they being for prescriptions and the sale of goods ready prepared. To sum up, there is a great deal of merit in the Canadian practice of pharmacy, isolating the dispensary, recognising the necessity of side-lines, and cultivating them intensively with salesmen able to inspire confidence in the most timid buyer.—F. E. J. (5/7).

Liverpool Health Report

THE recently issued annual report of the medical officer of health for the City of Liverpool (Dr. E. W. Hope), covering the year 1921, contains, as reports of this series usually do, several records of general interest and value, in addition to a mass of admirably tabulated results of routine work. A case of suspected poisoning arising from mutton stuffed with what purported to be mint, sage and onions, yields, for instance, an attractive passage on the cultivation of belladonna. We need only premise that the paragraphs leading up to it include the statements that in 3 oz. of the stuffed meat there was found 0.025 gr. of atropine, and that the medical officer of health for Worcestershire, whence the sage came, was communicated with. The following is an extract from his reply:—

The belladonna plant was at one time largely grown in the vicinity of Evesham, viz., in Badsey and Littleton parishes. I made enquiries at those places as to this, and I find that belladonna growing has entirely ceased since 1918, as "it did not pay." Even when it was grown "during the war" (and only then) the seed was supplied to some 39 growers, and each purchaser had to sign an undertaking to sell all the belladonna leaf he grew to a certain Society, who dried it at Littleton and disposed of it in London. Although cultivation of belladonna has ceased in the Evesham district since 1918, and the roots have, as far as practicable, been destroyed, odd leaves still appear on the land now used for cultivating other produce, as belladonna root is extremely difficult to eradicate. A warning notice to all local persons who formerly grew belladonna, as to the danger of odd leaves of that plant getting mixed with any of their consignments of vegetables and herbs was issued.

Other matters in the report may be referred to more briefly. Under the heading "Drugs" in the table devoted to the results of analysis of samples taken under the provisions of the Sale of Food and Drugs Acts, we find that five informal samples out of 126 were found to be adulterated, as were four out of 20 formal samples. A conviction was obtained in respect of a sample of Gregory's powder. The work of the City bacteriologist figures largely in the report, occupying six pages, and showing that no fewer than 32,362 specimens were examined in his department. Of these, 6,833 were dealt with in connection with venereal diseases; the attendance at the clinics, as has proved to be the case in other centres, showed a reduction on the figures for the previous year. The table showing the issue of galyl, novarsenobillon, neokharsivan, etc., to clinics, hospitals and private practitioners occupies a page, and affords a typical instance of the care for detail evidenced. On the perennial question of rat-extermination, Dr. Hope suggests that "the bird-lime tray is quite as effective as any other method, and in regard to poisons, it is difficult to say whether one poison has an advantage over another." The chart showing, for the months July to October inclusive, the number of flies of two species caught and the comparative incidence of fatal cases of diarrhoea is worth examining; and on the question of atmospheric pollution the conclusions reached are supported by convincing statistics.

Gazette

Partnership Dissolved

MORSE, W. H., & SWEET, R. A., 10 Phoenix Place, London, manufacturers and sellers of a specific or patent medicine called "Sargol," under the style of firm of Sargol Co.

Bankruptcy Acts

RECEIVING ORDER

LEWIN, BÉRTRAM, 16, Deansgate, Manchester, chemical manufacturer.

RECEIVING ORDER AND ADJUDICATION.

SPENCER, HARRY H., 110 Strathbrook Road, Streatham, and lately carrying on business at 384a Rotherhithe New Road, both London, chemist.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office

L. N. CHINN, LTD. (P.C.)—Capital, £250. Objects : To carry on the business of hair and scalp specialists, etc. L. N. Chinn is permanent managing director. R.O. : Warwick Chambers, 66½ Corporation Street, Birmingham.

ECONOMY STORES, LTD. (P.C.)—Capital, £5,000. Objects : To carry on the business of . . . dealers in . . . drugs, chemicals, etc. Secretary and solicitor : D. B. Levinson, Dumfries Chambers, 8 Dumfries Place, Cardiff.

LEWMAN CO., LTD. (P.C.)—Capital, £100. Objects : To carry on the business of manufacturers, importers and exporters of and dealers in all kinds of cleaning preparations, disinfectants, oils and greases, chemists, druggists, drysalters, oil and colourmen, etc. R.O. : 618 Old Ford Road, Bow, E. 3.

L. NAUNTON EVANS (CARDIFF), LTD. (P.C.)—Capital, £1,500. Objects : To carry on the business of chemists, druggists, drysalters, oil and colourmen, etc. The permanent directors are : I. N. Evans (managing director), 12 Victoria Park Road West, Cardiff, and Mrs. J. Evans. R.O. : 44A Cowbridge Road, Cardiff.

BRYNE, LTD. (P.C.)—Capital, £600. Objects : To acquire from F. W. Pitt a secret process for the manufacture of disinfectants and toilet products, etc. The permanent directors are : F. W. Pitt, 147 Elgin Crescent, W. 11; H. F. P. Morgan, 8 Percival Terrace, Brighton. Secretary : H. F. P. Morgan. R.O. : 62 Old Steine, Brighton.

MAORIX, LTD. (P.C.)—Capital, £3,000. Objects : To carry on the business of chemists, druggists, drysalters, oil and colour men, etc. The subscribers (each with one share) are : S. Pennells, 75 Bulwer Road, Leytonstone, E. 11, managing clerk; J. A. G. Leask, 8 Coburgh Mansions, Brunswick Square, W.C. 1, solicitor. R.O. : 22 Dorset Street, W. 1.

HERBERT & CO., S.A.P. (1922), LTD.—Capital, £40,000. Objects : To adopt an agreement with the London and County Trust Co., Ltd., and to carry on the business of manufacturers of and dealers in boot, shoe and other polishes, powders, wax and essential oils of all kinds. R. T. Hartmann is first director. Secretary : V. G. H. Medley. R.O. : 23 Austin Friars, E.C.

DEVON CLEANSERS, LTD. (P.C.)—Capital, £500. Objects : To carry on the business of agents, soap and cleaning material manufacturers, dealers in merchandise, oils, fats, chemicals, minerals, etc. The first directors are : A. Carlton, 38 Oxford Road, Exeter; C. B. Clark, Karnahouse, Courtland Crescent, Lympstone. R.O. : 1 Guildhall Chambers, High Street, Exeter.

AYLOTT & CO., LTD. (P.C.)—Capital, £1,000. Objects : To carry on the business of manufacturers of and dealers in men's and women's hats and headgear of all kinds, manufacturers of and dealers in toilet articles, including pomades, tonics and dressings for the hair, etc. The first directors are : S. C. Aylott, Downs Road, Luton; E. Gardner, The Rushes, New Bedford Road, Luton.

CHEMICAL AND TECHNICAL ENGINEERING CO., LTD.—Capital, £12,000. Objects : To carry on the business of manufacturers of and dealers in chemical compounds, products and preparations, engineers, founders, agents, etc. The first directors are : G. W. McArthur, 37, Walbrook, E.C., A. E. Parke, 10, Aldgate, E.C., and E. S. Slade, 82-3, Fenchurch Street, E.C. Solicitors : B. A. Woolf & Co., 37, Walbrook, London, E.C.

AUSTIN & SON (NECHELLS), LTD.—Capital, £2,500. Objects : To take over the business of manufacturing confectioners, chemists, druggists and drysalters carried on at Excelsior Works, Nечells, Birmingham, as "Austin, Son & Webb Brothers." The first directors are : A. J. Corrall, Sen., 395 Nечells Park Road, Birmingham (managing director); A. J. Corrall, Jun. Solicitors : Rocke & Bradley, 83 Colmore Row, Birmingham.

A. MORGAN DAVIS AND CO., LTD. (P.C.)—Capital, £300. Objects: To carry on the business of chemists, druggists, mineral water manufacturers, etc. The first directors are: Mrs. T. V. Wheeler, 192 Cathedral Road, Cardiff; Miss E. Stiles, 225 Lewisham High Road, S.E.; Mrs. A. Morgan Davis, 225 Lewisham High Road; T. Morgan Davis, 225, Lewisham High Road. Secretary: Mrs. A. Morgan Davis. R.O.: 225, Lewisham High Road, S.E. 4.

ALLEN-MYTTON TRADERS, LTD. (P.C.)—Capital, £5,000. Objects: To carry on the business of merchants, manufacturers, contractors, importers, exporters, shippers, planters, farmers, agriculturists, storekeepers, engineers, machinists, founders, agents, underwriters, insurance brokers, agents for and dealers in produce, goods, plant, machinery, motor-cars, vehicles, oils, apparatus, chemicals, and merchandise, etc. R.O.: Capel House, 54 New Broad Street, E.C.

SCIENTIFIC PREPARATIONS, LTD. (P.C.)—Capital, £100. Objects: To carry on the business of manufacturing, wholesale and retail chemists, analysts, druggists and refiners, manufacturers of and dealers in goods dealt in by chemists, druggists and perfumers, soap, brushes, glass, fancy goods and toilet articles, etc. The subscribers (each with 100 shares) are: J. D. McAra, chartered secretary, and E. G. Watkins, merchant, both of 46 Peartree Street, E.C. 1. The first directors are F. Poule, A. H. P. Howard, J. D. McAra, and E. G. Watkins. R.O.: 46 Peartree Street, E.C. 1.

LIFE SAVERS SALES, LTD. (P.C.)—Capital, £5,000. Objects: To carry on the business of dealers in sweets and confectionery, mineral waters, drugs, chemicals, patent medicines, food products, etc. The subscribers (each with one share) are: E. E. Spiller, Grove Barr Cottage, Horsell, clerk; F. E. Stafford, 40 Chevening Road, Brondesbury Park, N.W. 6, solicitor's clerk. The first directors are: Sir Arthur Philip du Cros (chairman), and D. A. Craig (vice-chairman). Solicitors: Kenneth, Brown, Baker & Baker, Lennox House, Norfolk Street, Strand, W.C. 2.

TRIANGLE MANUFACTURING AND EXPORT CO., LTD. (P.C.)—Capital, £1,000. Objects: To carry on the business of manufacturers of and dealers in perfumery, chemicals, pharmaceutical and colonial goods and machinery and goods used in connection therewith, shipowners, shippers, transport agents, exporters, importers, etc. The subscribers (each with one share) are: Rachel Angell, 62 Fountayne Road, Stoke Newington, N., clerk; M. Luntz, 157 Queens Road, Finsbury Park, N. 4, merchant. R.O.: 23 Sun Street, Finsbury, E.C.

B. LAPORTE, LTD.—The profit for the year is £17,586, against £7,485; an ordinary dividend of 10 per cent. has been declared against 6 per cent.; £2,000 has been placed to income-tax suspense account, against nil; £1,000 to bad debts reserve account, against nil; and the balance forward is £4,921, against £3,132.

WATFORD MANUFACTURING CO., LTD.—A resolution for the voluntary liquidation of the Watford Manufacturing Co. (at one time Dr. Tibbles' Vi-Cocoa, Ltd.) was carried unanimously by the shareholders at the meeting held on September 4, Mr. D'Arcy Cooper being appointed liquidator. Mr. A. H. Ashbolt, who presided, stated that the position was the direct result of the falling market prices for the past two years and the absence of reserves with which to meet the situation. The sum of £450,000 was owed to the bankers and £83,000 to other creditors. The chairman pointed out that the alternative to liquidation was for the shareholders to provide at least £500,000 new capital. He hoped it would be possible for a body of shareholders to make an offer, so that the company could continue in business. If the property was broken up and sold he estimated a deficit of £92,000, but he considered as a going concern it was worth considerably more. It was suggested from the body of the hall that Lord Leverhulme, being the principal shareholder, might be prepared to put forward some proposition, but the chairman said Lord Leverhulme was not prepared to discuss the matter.

Stock Exchange Prices

£1 Shares unless otherwise stated.	Dec.	July	August
	30	31	31
Allen & Hanburys, 7% Prefd. Ord. ..	20 3	20 6	20 3
Apollinaris and Johannis, Ord. £10 ..	12 6	22 6	22 6
" " 5% Pref. £10 ..	25 0	42 6	40 0
Ash (Claudius), Sons & Co., Ord. ..	20 6	16 3	14 0
Ayrton Saunders & Co. 7½% Pref. ..	14 3	3	14 3
Barclay & Sons, 5% Pref. ..	2 9	2 6	2 6
Benger's Food, Ord. ..	30 0	35 7½	38 0
Boake (A.), Roberts & Co. 5% Pref. £10 ..	£5½	£5½	£5½
Boots Pure Drug, 7% "A" Prefd. Ord. ..	17 3	22 3	22 6
" " 7% "B" Prefd. Ord. ..	17 0	22 3	22 6
Boots Cash Chemists (Eastern), 6% ..	15 6	19 3	19 9
" " A" Pref. ..	15 6	19 3	19 9
Boots Cash Chemists (Lancashire), 6% ..	14 6	19 3	19 9
Boots Cash Chemists (Southern), 6% ..	15 3	19 3	19 9
Boots Cash Chemists (Western), 6% ..	17 0	19 3	19 9
Borax Consol'd., Defd. Ord. ..	30 0	32 9	33 6
Bovril, 6% Pref. ..	17 3	22 4½	22 3
" " Ord. ..	18 0	23 0	22 6
" " Defd. ..	14 6	19 0	18 9
British Cellulose & Chemical, Ord. ..	3 7½	4 3	4 9
" " 7½% Pref. ..	6 3	6 7½	7 0
British Cyanides, Ord. ..	14 6	17 6	16 3
British Dyestuffs Corp., 7% Pref. ..	6 10½	6 0	6 0
" " Prefd. Ord. ..	4 6	4 0	4 0
British Glues and Chemicals, Ord. ..	15 0	10 0	6 3
" " 8% Pref. ..	15 7½	15 0	13 9
British Oil and Cake Mills, Ord. ..	22 0	27 9	25 3
British Oxygen, Ord. ..	30 0	32 0	35 6
Brunner Mond, Ord. ..	25 0	30 0	30 0
" " 7½% Pref. ..	21 3	28 0	27 6
Bush (W. J.) & Co., 5% Pref. £5 ..	52 6	67 6	67 6
Cadbury Bros., 6% Pref. ..	19 7½	22 9	23 3
Callard, Stewart & Watt, Ord. ..	16 3	21 3	21 3
" " 5½% Pref. ..	13 9	16 3	16 3
Crosfield (Joseph) & Sons, 6½% Pref. ..	15 0	20 0	19 9
De Trey & Co., Ord. ..	13 9	14 3	13 6
Eastman Kodak, Com. (No Nominal Value) ..	\$730	\$82½	\$95
" " 6% Prefd. \$100 ..	\$123	\$123	\$120
Evans Sons Lescher & Webb, Ord. ..	12 6	7 0	7 0
" " 5% Pref. ..	10 0	9 0	9 0
Field (J. C. & J.), Ord. ..	7 6	16 3	18 0
" " 7% Pref. ..	12 6	19 3	19 6
Idris & Co., "A" Ord. ..	8 6	10 0	8 9
Iford, Ltd., Ord. ..	16 3	21 9	21 6
" " 6% Pref. ..	15 0	18 6	17 9
Kent (G. B.) & Sons, 5½% Pref. ..	14 4½	13 9	15 0
Knight (John), 25% Prefd. Ord. ..	45 0	57 6	55 0
Lever Bros., Ltd., 7% Pref. ..	16 6	19 6	19 7½
" " 8% Pref. ..	16 6	19 3	19 4½
" " 20% Pref. Ord. 5s. ..	9 3	10 7½	10 3
Liebig's Ext. of Meat, Ord. £5 ..	£12½	£12½	£13
Magadi Soda, Ord. ..	11 3	8 0	7 0
Mellin's Food, 6% Pref. ..	11 0	11 3	11 3
Mond Nickel Co., Ord. ..	20 0	27 6	26 3
" " 7% Cum. Pref. ..	19 3	24 6	24 3
Nathan (Joseph) & Co., 7% Pref. ..	16 9	20 7½	21 3
" " 8% Prefd. Ord. ..	19 0	20 6	20 0
National Drug and Chem. Co. of Canada, 6% Pref. ..	17 0	17 9	18 9
New Transvaal Chemical Co., 6% Pref. ..	15 0	18 3	18 6
" " 8% Pref. ..	17 6	21 0	20 0
Salt Union, Ord. ..	13 9	15 0	16 0
" " Pref. ..	14 6	21 0	22 0
" Sanitas, The Co., 9% Pref. ..	20 0	23 9	23 9
Schweppes, Ltd., Ord. ..	13 3	17 6	17 6
" " Defd. ..	7 6	9 0	8 6
Smith (Stephen) & Co., 6% Pref. ..	22 6	25 6	26 0
Southall Bros. & Barclay, Ord. ..	—	41 6	42 0
" " 5% Pref. ..	—	17 9	18 9
Spratt's Patent, Ord. ..	25 0	35 0	35 0
United Alkali, Ord. ..	12 6	18 9	18 9
United Glass Bottle Man., 7% Mt.Deb. Stk. £100 ..	£96½	£90	£85
Venesta, Ltd., Ord. ..	17 6	16 3	17 3
" " 7% Pref. ..	15 0	15 0	16 3
Virol, Ltd., 7% Pref. ..	16 3	21 3	21 3
White (A. J.), Ltd., Ord. 10s. ..	3 9	4 3	3 9
White (R.) & Sons, 6% Pref. ..	10 0	15 6	15 0
" " Prefd. Ord. 10s. ..	3 9	5 6	5 6
Wright, Layman & Umney, 6% Pref. ..	16 0	16 3	17 6

Safeguarding Industries Act

Glass Bottles Decision

THE REPORT of the Committee appointed by the Board of Trade to inquire into a complaint in respect of glass bottles under Part II. of the Safeguarding of Industries Act, 1921, has now been issued. It may be recalled that the complaints made by the Association of Glass Bottle Manufacturers of Great Britain and Ireland were :

(1) That glass bottles manufactured in Holland are being sold or offered for sale in the United Kingdom at prices below the cost of production thereof, as defined by the Safeguarding of Industries Act 1921, and that by reason thereof employment in the industry manufacturing similar goods in the United Kingdom is being or is likely to be seriously affected; and

(2) That glass bottles manufactured in Germany are being sold or offered for sale in the United Kingdom at prices which by reason of depreciation in the value in relation to sterling of German currency are below the prices at which similar goods can be profitably manufactured in the United Kingdom, and that by reason thereof employment in the industry manufacturing similar goods in the United Kingdom is being or is likely to be seriously affected.

For the purpose of the inquiry the complainants defined glass bottles as including "all containers" (*i.e.*, all glass containers) "of five inches or less in internal diameter of the opening of the mouth." In the course of the inquiry it became apparent that glass bottles as so defined included articles some of which were widely different from others not only in size, shape and material, but also in the conditions of their manufacture and in the qualities that users of them required that they should possess. But in laying their case before the Committee the complainants did not draw any distinction between one class or type of glass bottle and another, but contended that in respect of glass bottles generally (as above defined) their complaints were well-founded and that the conditions specified in Section 2 Sub-section (1) of the Safeguarding of Industries Act, 1921, were fulfilled.

The Committee held seven public meetings, which were fully reported in the *C. & D.* (May 20, p. 64; May 27, p. 71; June 10, p. 58; and July 1, p. 25). They examined 31 witnesses and heard counsel who appeared on behalf of certain witnesses both in support of and in opposition to the complaints. In addition to general evidence given publicly with regard to the prices at which glass bottles can be profitably manufactured in the United Kingdom, the complainant Association submitted to the Committee confidentially, accounts and costings statements showing the cost of manufacturing various types of glass bottles by certain companies and firms who are members of the Association. In examining these, the Committee had the assistance of the Finance Department of the Board of Trade. They also considered the available statistical evidence with regard to imports of glass bottles from Holland and Germany; the depreciation of the mark; and the state of employment in various industries.

The complaints were supported by the following bodies of manufacturers and workers engaged in the glass bottle manufacturing industry :

The Association of Glass Bottle Manufacturers of Great Britain and Ireland, the English and Scottish Glass Bottle Manufacturers' Association, the London Glass Bottle Manufacturers' Association; the Yorkshire Flint Glass Bottle Manufacturers' Association, the National Federation of Glass Bottle Workers of Great Britain and Ireland, the London Glass Blowers' Trade Society, and the National Joint Industrial Council for the Glass Manufacturing Industry (Bottles and Jars Sectional Council).

The complaints were opposed by the Food Manufacturers' Federation, by the China and Glassware Section, the Owners of Proprietary Articles Section, the Infant and Invalid Food Manufacturers' Section, and the Perfumery Manufacturers' Section of the London Chamber of Commerce, and by a number of companies, firms, and individuals engaged in such industries as meat preserving and packing, jam, pickle and confectionery making, wine, spirit and beer bottling, mineral water making, and the manufacture of patent foods, drugs and perfumery.

COMPLAINT NO I.

The glass bottle manufacturing industry in Holland is in a very depressed condition; out of 16 bottle works that were running in 1913, only three or four are now in operation, and there can be no doubt that a large portion of the glass bottles that appear in the Customs returns as "Imports from the Netherlands" were not manufactured in Holland. The evidence as to the "cost of production" (as defined by the Safeguarding of Industries Act, 1921) of glass bottles in Holland and as to the relation of such cost to the prices at which glass bottles manufactured in Holland are being sold or offered for sale in the United Kingdom was meagre, unsatisfactory and conflicting. In the opinion of the Committee, it entirely failed to establish that glass bottles manufactured in Holland are being sold or offered for sale in the United Kingdom at prices below the cost of production thereof as defined by the Safeguarding of Industries Act. On this ground the Committee report unanimously that, as respects glass bottles manufactured in Holland, the conditions specified in Section 2, Sub-section (1) of the Safeguarding of Industries Act, 1921, are not fulfilled.

COMPLAINT NO II.

No evidence was given of prices at which actual sales of glass bottles manufactured in Germany had taken place in the United Kingdom; the prices put in evidence were quotations obtained from Germany. It was contended by those opposing the complaints that these quotations could not be relied on as showing real and effective German prices. It was said it was a common occurrence that a purchaser of German glass bottles for delivery in the United Kingdom could not obtain delivery without paying a price much in advance of the one at which his order had been accepted; and illustrative instances were given. But in these cases the price had been quoted in marks. The German prices put in by the complainants were based on quotations in sterling; such quotations are now the rule, and we accept them as indicating with sufficient accuracy the prices at which glass bottles manufactured in Germany are being sold or offered for sale in the United Kingdom. Germany prices were given in respect of a few only of the thousands of varieties of glass bottles that are manufactured, the kinds of bottle selected being such as the complainants alleged were typical; and in making their case as to the cost of manufacture, or the price at which similar bottles can be profitably manufactured in the United Kingdom, the same course was pursued, the evidence being confined to bottles of the same kinds as those in respect of which evidence of German prices had been given.

THE COMMITTEE'S FINDINGS.

Concluding, the Committee state that they have carefully considered the evidence with regard to the prices at which glass bottles can be profitably manufactured in the United Kingdom and the comparison between such prices and the prices at which it was alleged that similar glass bottles manufactured in Germany are being offered for sale in the United Kingdom. They have taken into account the statistics as to the importation of glass bottles from Germany. To a considerable, but they have not the means of estimating to what extent such importation is due to an actual or traditional superiority of the German article; but to a large extent it is due, no doubt, to German glass bottles being offered for sale at prices below the prices at which similar bottles manufactured in the United Kingdom, are offered for sale, and in some cases glass bottles can be profitably manufactured in the United Kingdom. But the evidence falls very far short of establishing that fact. On the contrary, the Committee are of opinion that, though there may be exceptions, glass bottles generally can be profitably manufactured in the United Kingdom at prices that would compete with the prices at which glass bottles manufactured in Germany are being sold or offered for sale in the United Kingdom. On this ground they report unanimously that, as respects glass bottles manufactured in Germany, the conditions specified in Section 2 Sub-section (1) of the Safeguarding of Industries Act, 1921, are not fulfilled.

Chemists' Dental Society

A GENERAL MEETING of members of the Chemists' Dental Society was held at the Dental Exhibition, University of London, South Kensington, S.W.7, on August 31, Mr. F. R. Sutcliffe (President) in the chair. Among those present were :—Mr. F. C. Ashford (Vice-President), Mr. J. J. Laws (treasurer), Mr. J. W. Roberts (secretary), Messrs. H. J. Morgan, S. Davis, Templar, E. Malins, S. V. Brook, J. H. Tasker, W. E. Barker, F. J. Dyer, C. Hinton, F. H. Fenwick, B. L. Workman, A. E. Ashworth, B. Coppock, and W. Frost Wood.

DENTAL INSURANCE SCHEME

Before the meeting, an address on the new Dental Panel Insurance Scheme and how it is proposed to work it was given by Mr. F. Butterfield, who is a member of the Dental Board. Mr. Butterfield explained that Panel Committees are being formed throughout the country, and each dentist must give his name to the secretary of such a committee in his district. In the first instance, the British Dental Association were forming panels for dental surgeons only, but owing to the opposition of the newly registered dentists, the panels had been left open to every dentist on the register. As in the case of the medical panel, insured persons are to have free choice as to the dentist by whom they wish to be treated. About 150 Societies are now giving dental benefit to their members.

It was also stated that a list of the names of Panel Committee secretaries would be given to Mr. J. W. Roberts, the secretary of the Chemists' Dental Society, who will then send them to members.

SECRETARY'S REPORT

MR. ROBERTS presented a report on the work of the Society, explaining that although he had been secretary for only about two months, he had found there was a great deal of work to do, but he was trying his best to organise it so that it could be done efficiently. He mentioned that he had had to call on the Dental Registrar a number of times. Chemists were naturally, indeed, almost unnaturally, lax in keeping their accounts, and if they were not afraid of the income-tax people, he believed some of them would not keep any books at all. (Laughter.) In many cases, so far as their dental practice was concerned, they seemed simply to put the money in their pockets. (More laughter.)

A MEMBER: Dental practice is looked upon as a bit of jam. (Laughter.)

MR. ROBERTS went on to say that some of the members had been faced with difficulty because they could not prove substantial practice. The Dental Registrar had made the suggestion that applicants for registration should try to calculate their income from dentistry and explain matters to a chartered accountant. Even if a man had not kept books, he ought to calculate in some way. The Registrar was usually satisfied if he received an accountant's certificate or note giving the accounts for dental work and pharmacy. He (Mr. Roberts) did not see why any member of the Society should fail to become registered. The Registrar thought some chemists were very lax, for some applications had been lying in his department since last February, and yet he could not get from the applicants any really satisfactory proof of substantial practice. About ninety cases were still in abeyance. He (Mr. Roberts) was now writing to some of the members of the Society, telling them exactly what to do to secure registration. He had seen Mr. Hartshorn, M.P., whom he thanked for the valuable help which he gave the Society in connection with dental legislation, and had received the assurance that they could rely upon Mr. Hartshorn for assistance whenever the occasion arose in the future.

Referring to the backing which the Society's efforts had received from the Irish Dental Society, Mr. Roberts said he had received a deputation from the Society on the previous day, consisting of Messrs. F. J. Smith (Antrim), J. Moffet (Belfast), and T. Mitchell (Belfast). The support of the Irish Dental Society had proved a great asset in the negotiations with those responsible for dental legislation, and he was glad to have had an opportunity of expressing

the Society's appreciation. In conclusion, he assured the members that he would do all that he could to make the Society increasingly useful, and any of them who had difficulties with regard to dental legislation need only apply to him at 10 Tavistock Place, W.C.1, for the information they required. (Applause.)

Mr. Roberts was cordially thanked for what the chairman described as "a very admirable report."

The PRESIDENT then gave the following address:—

PRESIDENT'S ADDRESS

In considering the future of the Society, it is well to take a glance at the past, and to try to profit by the lesson taught by experience. Let us look at the position of chemists in 1911, when this Society was founded. Scattered up and down the British Isles were chemists doing dental work and enjoying the emoluments resulting from work which they had an undoubted right to perform, but all helpless in the face of attack. Dental Bills were brought forward with the object of conserving the practice of dentistry to examined persons. As examined persons themselves, in the enjoyment of more or less shadowy rights, and under the protection of Pharmacy Acts which had more a sentimental and imaginary value than value which could be translated into financial terms, chemists had a certain sympathy with the objects of these Bills. But the framers of these early Bills, being men of singularly narrow vision, failed to realise that existing rights and vested interests must be recognised, and that, though the public good and the privileges of examined persons are of the highest importance, there are private rights of law-abiding and tax-paying citizens which could not be ignored. Slowly it began to dawn on these law-givers that some of the unqualified would have to be registered, but, strange though it may appear, the class, of unqualified practitioner whom one would have thought the first to be recognised according to the precedent of the first Dentists Act, and according to their training and attainments—I refer, of course, to pharmacists—seem to have incurred the special animosity of all other sections of the dental profession. The members of the pharmaceutical profession, often contemptuously alluded to as "the handmaid of medicine," were once more to be made the Cinderellas of the dental profession, and, while the other sisters went to the ball, we were to be sent to the kitchen to fulfil our proper function of handing out proprietaries and calling it "Pharmacy for the Pharmacist." That was the condition of things when this Society was founded. We cannot remember too gratefully the persevering efforts of those men who banded themselves together to maintain and conserve the rights of chemists to practise dentistry under any new regulations as freely as they had done in the past. Time passed on, during which various efforts were made to consolidate the dental profession by the different societies and associations, dental chemists always being ignored—unrecognised except by attempts made to eliminate them from the practice of dentistry. During these years our Society kept together, watching and guarding against the attack made on our rights, and accumulating funds for the time when dental Bills were likely to become dental Acts. Recent events will be so fresh in your memory that it will not be necessary to remind you of the attempts made to hamper us in the conduct of the dual rôle of chemists and dentists, of the attempt to penalise us as dentists because we were also chemists; nor of the strenuous opposition this Society offered to the penalising clause and the successful issue of our struggles. We can, however, reaffirm with the greatest possible emphasis that the success we gained, the position won by dental chemists, was due to the Chemists' Dental Society, its officers and council, and to no other person, organisation, society, or body whatsoever. We have now arrived at a point analogous to the Armistice period following the Great War. "The tumult and the shouting dies, the captains and the kings depart." But it will be found that, as in the war, our troubles are not at end. We have to ask ourselves whether the spirit which all along has opposed our practising dentistry is a changed spirit, or whether there is still the same antagonism towards us by other sections as before. We must ask ourselves also whether the agreement we effected with the other interests was dictated on

their side by a recognition of our rights, or by expediency which, by getting rid of our opposition, facilitated the passing of the Bill they so much wanted. Those of us most closely in touch with things have reluctantly come to the conclusion that it is not a changed spirit, and that it will be as necessary as ever for chemists to continue to support their own Society, to watch over their special interests. With regard to the future activities of this Society, there are several items to which I might direct your attention.

(1) *Registration.*—Our secretary has been inundated with letters asking for help and advice in this most important matter. He has piles of correspondence with chemists, both members and non-members, and as a result of his expert knowledge of the form in which the Registrar likes to have the evidence submitted, we have been able to help many men on the Register. Any chemist who has not yet registered, or who is having difficulty with the Registrar, will find our secretary willing and anxious to help, provided his claim is a *bona-fide* one, and, if not a member, he will find this help alone well worth his subscription.

(2) *Insurance.*—We are the only society which has given free insurance to its members up till now. No individual chemist can insure on such favourable terms as we are able to obtain collectively for our members.

(3) *Work for Insured Persons.*—This important subject is receiving the careful attention of your council, and will become increasingly important as time goes on. Efforts have been made up and down the country to form panels to get hold of this work and to restrict membership of these panels to B.D.A. members. Some societies are restricting this work to B.D.A. men; and, as all registered dentists are legally entitled to perform this work, whether they belong to the B.D.A., I.D.S., any society or none, it will be necessary to combat any attempt by any section of the dental profession to restrict to themselves this work in which we are all entitled to participate. Chemists who have a dental surgery in connection with their pharmacy will be in an exceptionally favourable position to get hold of this work, and your Society will take steps to see that they are not by any back-stairs conspiracy or negotiation manoeuvred out of participating in any profits which may be obtained from this source.

Two other matters may be mentioned. (1) Protection against aggressive action by any other section of the dental profession. I do not want to labour this question very much, nor to cause any embittered controversy at this time, but it is well to guard against any blow that may come to us from any quarter, and we can only do this by concerted action and mutual support. The history of our Society in the past is enough to present to members on this point. The aggressive action represented by the penalising clause found us united and strong enough to defeat that outrageous attempt to wipe out all dental chemists, and we intend to maintain intact the organisation which saved the situation. (2) Defence against unfounded charges of unethical practice. As shopkeepers, we may possibly be more apt to slip from the highest ethical standards unintentionally in such matters as advertising than dentists who practise solely in chambers; and, while we expect and intend to enforce from our members a high ethical standard of conduct, we shall defend with all our power unfounded charges against any of our members. Our Society is run at a very small expense. We have no rent or rates to pay for offices, and your officers are honorary. We have accumulated funds which it is the policy of your council to spend in giving the fullest possible benefit to members in return for their subscriptions. As members become registered, they will receive invitations to join other societies. It is for each member to ask himself whether he will continue to support the Chemists' Dental Society, to stick to the bridge which has carried him over, or will take to uncharted ways in the company of companions who have not been very friendly in the past, and of whose friendship in the future he can only be in doubt. Let him join other societies in addition if he will, but let him not forget that there is one society, and one only, which is charged with the duty of caring for his special and particular interests as a dental

chemist, and that is the society of which I am proud to occupy the presidential chair—the Chemists' Dental Society. (Applause.)

DISCUSSION

A MEMBER asked if there was any reason why they should not also be members of the Incorporated Dental Society.

THE PRESIDENT replied that he himself was a member of the I.D.S., to which he felt very much indebted. He paid a high tribute to the work which Mr. Butterfield and his Society had done for hitherto unregistered dentists, and expressed the gratitude felt by the Chemists' Dental Society for the hospitality shown in the loan of room for that meeting. Every member of the I.D.S., continued the President, had become registered without any trouble. But it was not a society that was going primarily to look after the interests of chemists and druggists.

During subsequent discussion, MR. ROBERTS said he was surprised that there were such a large number of dental chemists. The dental registrar, for instance, had received over 300 applications from such men. A MEMBER suggested that dental chemists who belonged to other societies should be asked to join the Chemists' Dental Society, and it was stated that, as they became registered, the secretary extended an invitation to them to join.

Some discussion took place with regard to a suggestion that the Society should amalgamate with another society, but MR. ROBERTS expressed the view that their interests could be served best by remaining a distinct and separate organisation.

There was some division of opinion as to the advantage of a pharmacy in relation to a dental practice. While several members believed that the pharmacy materially helped toward the success of the dental business, there were others who held the opposite opinion.

THE PRESIDENT said the argument cut both ways, and a good deal depended on what kind of district they practised in.

Incidentally, appreciation was expressed of the great help given by THE CHEMIST AND DRUGGIST in the early days of the Society's existence, and a warm tribute was paid to the efforts and encouragement received from the Editor. During further discussion regarding the future of the Society, the PRESIDENT said, so long as their members wished to keep their pharmacies and their dental practices under one roof, the justification for the Society's separate existence would continue, because it was the only organisation watching their special interests.

A number of new members were elected, and MR. S. V. Brook was chosen as auditor for the ensuing year.

On the proposition of MR. ROBERTS, the President was cordially thanked for his address, and Mr. Butterfield for the use of the room. MR. SUTCLIFFE's brief reply concluded the meeting.

Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Wednesday, September 13

Manchester Pharmaceutical Golfing Society, Withington Golf Club, at 2 p.m. "Woolley" Challenge Trophy. Second prize presented by MR. J. Cleworth.

Parke Davis Swimming Club, St. George's Baths, Buckingham Palace Road, London, S.W., at 7.30 p.m. Swimming gala.

"THE CITY OF PERFUME."—"The Illustrated London News," of September 2, contains a four-page article on the perfume industry as carried on at Grasse.

SALE OF PATENT MEDICINES IN CUBA.—A decree was published in the Cuban "Official Gazette," July 21, providing that no pharmaceutical speciality or patent medicine shall be put on sale before an entry has been made in a register at the office of the Inspector-General of Pharmacy recording the names of the ingredients to which it owes its medicinal properties. The provisions of the decree are to be carried out within three months of the date of its publication.

Confectioners' Exhibition

THE Confectioners', Bakers', and Allied Traders' twenty-sixth exhibition and market, which is being held in the Agricultural Hall, London, N., from September 2 to 8, compares favourably with its predecessors, both as regards exhibitors, of whom there are over 300, and the standard of the displays. Many houses well known to pharmacy are represented, as, after the confectionery, chocolate and cocoa exhibitors, manufacturers of essences and colourings are probably third in number. In the machinery section there is much to interest the manufacturer. The following are among the exhibits of most interest to those connected with the drug trade :—

ESSENCES AND COLOURS

BLACKWELL, HAYES & Co., LTD., are showing a wide range of flavouring essences and colours (liquid, powder or paste); colour and flavour combined are obtainable under the name of Flavocols. When using these it is only necessary to adjust for colour, when the correct flavour is obtained. Cream powder is another of the company's specialities, and for any one concerned with coating pills, "New French Pink Extra" is stated to give delightful results.

GRIMWADE, RIDLEY & Co. exhibit, among other things, essences, essential oils, and sugars. Some excellent samples of blanched almonds are to be seen at the stand, and the firm's representative also mentioned that saline is one of their specialities.

HIEROS, LTD., are paying particular attention to non-alcoholic essences and fruit extracts, and to aniline colourings. As announced in the company's advertisements in the *C. & D.*, the "Dutch Rose Maiden" was in attendance at the stand and attracted a good deal of attention.

LONDON ESSENCE Co., LTD., have a striking show of fruit extracts, essences, floral ottos and essential oils. Colours for confectionery form another important branch of the company's activities.

JAMES PASCALL, LTD., have a comprehensive exhibit which includes colourings, essences; cachous and Ambrosia milk chocolate. The designation of the last-named suggests its composition.

POLAK & SCHWARZ, LTD., for whom Mr. K. B. Mavankar is the agent for the United Kingdom, are exhibiting fruit extracts and essences, particular attention being drawn to peach and strawberry aldehydes, aromatic chemicals and essential oils.

PHARMACEUTICALS

THE BRITISH DIAMALT Co., whose stand is near the entrance to the Hall, are exhibiting solid and liquid extract of malt. This can be supplied in any of the popular combinations.

THE GRAESSER-MONSANTO CHEMICAL WORKS, LTD., are confining their exhibit to vanillin, which is attractively displayed in the form of a star on a blue ground, while a card above draws attention to 1/5 oz. of vanillin being equivalent to 10 oz. of vanilla bean. The chemical itself is an excellent sample, and practically white.

IMEX, LTD., are showing, among other things, a cream of tartar (99.6 per cent.), which they manufacture in Algiers and France. The sample we inspected was beautifully white and of a fine texture.

J. W. LICHTEBOWN & SONS are making a display of "Gripps" first-aid pastilles, while a "Dr. Gripps" parades the Hall with a large tin and invites visitors to sample the goods. It should be noted several cash prizes of a total value of £200 are being offered to retailers for window-displays of the pastilles, which are also being extensively advertised in the lay Press. The London agents are Thomas Christy & Co., Old Swan Lane, E.C.

UNITED LABORATORIES & CHEMICAL Co., LTD., have a display of Sprazone outfitts, which consist of a spray and bottle of solution packed in a neatly designed tin box. The solution is diluted and used as a spray in houses or shops where flies abound, and is claimed to be an effective exterminator.

THE UNITED YEAST Co., LTD., include among other lines, solid and liquid extract of malt (the company also

make extract of malt and cod-liver oil), colours, essences and cream of tartar (99.5 per cent.) at one of their stands, while at another samples of woodwork are to be seen, shop-fitting being another branch of the company's activities.

MACHINERY AND ACCESORIES

THE ALUMINIUM PLANT AND VESSEL Co., LTD., manufacture, as their name implies, all manner of aluminium utensils and apparatus. They are showing among other articles in that metal, essence stills, drying-trays, and evaporating pans. The company also make aluminium filters for the removal of finely suspended matter from colloidal solutions. The stand is well worth a visit.

THE CELLOPHANE Co. are showing some of the various uses to which Cellophane can be put. Its impermeability to grease and essences, to say nothing of the enhanced appearance of whatever is wrapped in it, renders it specially useful to the perfumery, soap and drug trades.

MR. E. DUNCAN DORING first drew our attention to the Zeus advertising machine, which consists of an automaton—the figure of which can be either humorous or serious, to suit any particular trade—with almost human movements. The figure automatically extracts an announcement from the box, on top of which it is placed, and holds up the advertisement for the public to read, the while it "chatters" and moves its eyes and eyebrows. It then bends forward, replaces the announcement in the box, and a second or two later pulls out another advertisement, which it proceeds to display in the aforesaid manner. Twenty announcements can be placed in the same machine, and these advertisements can be altered or substituted at will. Any altered or additional cards wanted afterwards can easily be supplied by any signwriter. The apparatus, which is 24 in. long by 18 in. wide by 28 in. high, is equipped with a small motor, and can be instantly connected up to any existing electrical installation by simply inserting the contact-pin into any electric lamp-socket or wall-plug. The motor can be adjusted to suit any kind of current or voltage. The consumption of current amounts to only 1/20 kilo-watt per hour. The speed of displaying the advertisements can be regulated. The remainder of the exhibit was devoted to cachou and lozenge jars, sample tubes and other glassware.

DUPLE BODIES & MOTORS, LTD., specialise in a car which makes a smart delivery van and, by removing the van hood and substituting the cape hood, can be converted into a two-seater pleasure car. The price has been considerably reduced of late.

THE FORGROVE MACHINERY Co., LTD., confine their exhibit to caramel-wrapping machines, but mentioned in the course of conversation that they have a combined soap-stamping and wrapping machine which turns out fifty tablets a minute.

G. H. GLEDHILL & SONS, LTD., are showing their cash tills. The latest addition being a total adding receipt-giving model. One turn of the handle records internally the sum received, issues a receipt, opens a drawer for deposit of cash, and brings the total sales up to date. It can deal with any individual amount up to £20.

THE IMPERIAL SHOP-FITTING Co. have an imposing exhibit near the entrance to the Hall, where a variety of modern window-dressing equipment and showcases can be inspected. The fitting of shop-fronts and furniture are also undertaken by the company.

J. G. JACKSON, LTD., Glasgow, are showing a small compact grinding machine, made in two sizes. When fresh grinding faces are required, it is but a few minutes' work to unbolt the old ones and substitute the new. Another machine of interest to the drug-trade is for filling and measuring. This can be adjusted to weigh from a few grains up to 2 lb. A carton top-and-bottom closing machine, by which an output of 1,500 cartons per hour can be secured, is also to be seen at this stand.

MANSELL, HUNT, CATTY & Co., LTD., of bottle-cap fame, are exhibiting, among other things, seals for perfume bottles and cartons. Crimped paper cases and paper for window decoration are among other lines on view of interest to the chemist.

THE NATIONAL CASH REGISTER Co., LTD., are showing the new as well as the older models of their cash

gisters. With the latest type the value of each article purchased is "keyed," and when the "motor" key is pressed the itemised ticket showing the total purchase is reset, and the item total automatically reset to zero. The way to handle the accounts of credit customers is demonstrated by the N.C.R. credit file. A sales slip is made out in duplicate, the original forming the shop record and the duplicate being given to the customer. The former is placed by the assistant in the compartment of the daily section of the file marked with the customer's name, and is subsequently transferred by the proprietor to the protected section. From here the slips cannot get lost, and the state of any account can easily be seen. The file is a metal cabinet with enamel finish in oak or mahogany.

PARNALL & SONS, LTD. (who are the sole distributors of the weighing machines of W. & T. Avery, Ltd.) have divided their stand into two sections; one part is devoted to weighing machines, the other to shop fixtures. Among the latest automatic scales is one arranged to give not only the correct weight (without the turn of the scale), but, on the retailer's side, by reading through a red line the price is also calculated. As regards shop fittings, Messrs. Parnall are prepared to supply or carry out any alterations, from the shop-front to the smallest stand.

THE PEARLITE Box Co. (1918), LTD., are the manufacturers of Pearlite, a cardboard used to make boxes, which are stated to be air- and damp-proof. Instances of the employment in pharmacy of containers made of his substance are to be seen at the stand.

VENESTA, LTD., have two stands, one devoted to plywood articles and the other to tinfoil. The latter is obtainable either plain, embossed or coloured. Discs for putting over ointments or creams are also shown here. Among the articles in plywood are barrels, starch and orange trays and skips. The company, as is well known, also manufacture collapsible tubes.

WILSON'S SODA FOUNTAINS (1921), LTD., are showing several models of these machines; it is stated that the cost price of each drink, including tax, is one halfpenny, and that eight gallons of soda water is produced for sixpence. The machines, among which is one which measures 3 ft. x 1 ft. 6 in. x 4 ft. 8 $\frac{1}{2}$ in., are fixed free, and tuition is given in the making of the drinks. The taps are arranged so that only a certain amount of syrup can be withdrawn, and as the capacity of the container is known an efficient check on the sales is provided.

The following stands are also of interest:—F. R. DUCKLEY & CO. (glassware); CALEB DUCKWORTH, LTD. (mixing machines); DUDLEY & CO. (showcards and shop-fittings); HARDIE, MILROY & CO. (LONDON), LTD. (liquid egg); HARRIS & SHELDON, LTD. (shop-fittings); HORLICK'S MALTED MILK CO.; JULES LANG & SON (glassware); NESTLE & ANGLO-SWISS CONDENSED MILK CO. (chocolate); THEW, HOOKER & GILBEY, LTD. (malted milk); WRIGLEY'S, LTD. (chewing gum).

Association Affairs

Bury.—At a meeting of the Bury Pharmacists' Association, held on August 30, a vote of condolence was passed on the death of Mr. William Crompton (C. & D., September 2, p. 338). Letters from the Retail Pharmacists' Union concerning "Duplicate Prescriptions" and "Standards of Service" were considered, and also from the Ministry of Health with regard to alterations in terms of service.

Southport.—Members of the Southport Chemists' Association had an enjoyable motor run on August 23, the route embracing Scarisbrick, Newburgh, Parbold, and Rufford. Here they made a short stay for refreshments. Southport was reached shortly after 10 p.m. This, the third of these evening drives, was most enjoyable. The weather was delightful. The company included the President and Secretary (Messrs. A. H. Messenger and W. H. Smith), who were responsible for the arrangements.—A special meeting of the Southport Chemists' Association was held, on August 30, to hear an address by Mr. Pilkington Sargeant, Vice-President of the Pharmaceutical Society. There was a large attend-

ance. Dinner was first served. Mr. A. H. Messenger (president Southport Association) was in the chair, and among those present were Mr. W. H. Clubb (president of the Liverpool Association), Mr. D. H. Evans (ex-president Liverpool Association), Mr. H. O. Lloyd (member of the Pharmaceutical Council). The President said since their last meeting they had unfortunately lost one of their past members, Mr. Chester. He was pleased to welcome Mr. Pilkington Sargeant. Mr. Sargeant said he would like to preface what he had to say that night on

PHARMACEUTICAL POLITICS

by stating that the pharmacists of this country have no idea how much they owe to the Pharmaceutical Council for the administrative work which that Pharmaceutical Council did. Pharmacists do not quite appreciate how it is that they are free from vexatious restriction, and yet the safety of the public is so well protected, and the reason for that surely is, if they would think for a moment, that the administration of the Pharmacy Acts is under a body of experts who know absolutely how those Acts can be best administered, and who do administer them in the best way. Instancing the restrictions under the Dangerous Drugs Act, he said it appeared to him a lamentable thing that originally, under the Hague Convention, no pharmacist was called in to advise. If the League of Nations is to be of any value whatever, it ought to be able to control the output of the coca leaves from Peru and Bolivia [Dutch East Indies principally.—EDITOR.] and see that they are put in proper channels, instead of starting at the retail end and making such regulations as they have done. If regulations similar to these had been carried out in pharmacy generally, he asked them to imagine the state of the pharmacist in this country. The Government in various directions is encroaching, by means of infant welfare and maternity centres, V.D. and other clinics, and what the Council suggests is that, where possible, a pharmacy should be in charge of a pharmacist. That is one of the things the Pharmaceutical Council must see to in the future, but it could only see to it with the assistance and co-operation of the local association. He called attention to the newspaper cult of "our medical correspondent," that is tending to oust the pharmacist from his proper share in public work. In short, the ideal which the Pharmaceutical Council is working for is pharmacy for the pharmacist. He has been perfectly disgusted at seeing in the trade Press correspondence headed "Pharmacy for the pharmacist." He found it much removed from the subject. He submitted that the dispensing of medicine and the sale of medicine should be in the hands of the pharmacist. Two things necessary are the education of the public and the education of themselves. So far as the public is concerned, efficient organisation is essential. The Council of the Pharmaceutical Society are trying to bring this about. It must consist of a national and a local body, and the enthusiastic unit. The national body is the Council of the Pharmaceutical Society with its annual conference, somewhat on the lines of the old British Pharmaceutical Conference, but, in addition, a meeting of delegates, one from each association, which would discuss administrative, political and other details. In a local association not only would financial aid be given, but, if he might so call it, intellectual aid also. Lecturers will be sent from the Society to talk to associations on subjects closely connected with pharmacy. One thing he would like to say was that, if chemists' associations are going to spend their time having whisky drives and dances, motor tours and golf matches, and all that sort of thing, and nothing else, then the sooner they got outside the movement the better. Without efficient local associations they could not have an efficient central organisation. As for themselves, he said they are a lamentably uneducated lot of people. (Laughter.) They are behind the times in education. Many are behind the times in business methods, but with that he had nothing to do. They must raise the standard of their preliminary examination. They had already divided the qualifying examination. They had made an intermediate examination that can be taken in almost any technical school in the country. But they would probably alter that. There are too many men in pharmacy, and it would

not be a disadvantage if some were stopped at an early stage and kept out. They must not have a scheme of examination which would lower their craft in the eyes of intelligent people. On the other hand, they must not have a scheme of education which would deplete their craft. If they could get an intermediate examination that could be taken in most technical schools or universities throughout the country, then they would be sure that the candidate had been properly prepared. In that way they would turn out better men, and by the ordinary law of nature, better men would naturally get better remuneration. An ill-equipped, ill-educated, ill-remunerated pharmacist is a danger to the public. It is "up to" each association to see that there are facilities in its area for the instruction of young men coming into pharmacy. Other subjects for local associations included the Benevolent Fund. One thing he hopes to bring before the Council is whether the Society should not purchase, or build, some place which would be capable of taking the widows of pharmacists who had fallen by the way, or of pharmacists themselves, for the remainder of their lives. Then, in connection with the War Auxiliary Benevolent Fund, there had been recently a certain amount of discussion based on real ignorance. People talked as if the Pharmaceutical Council or its committee had not really done as it ought to have done because details could not be published. It would not have been fair to applicants to publish them; no one had been turned down without a proper reason. In conclusion, he appealed to them to assist the Pharmaceutical Council as much as they could.

DISCUSSION

The President said that he was afraid Mr. Sargeant would find, when next he opened his trade paper, that the Southport Association had recently enjoyed a motor run, and it would likely be repeated. Mr. Righton, who proposed the vote of thanks, thought the Pharmaceutical Society went to the extreme some few years ago when it left out Latin, which, to his mind, is one of the most essential things in connection with the chemists' business. Mr. Lloyd, who seconded, said he thought some of them who were more intimate with the everyday working experiences of pharmacy realised how difficult the ideals held by Mr. Sargeant were of attainment; at the same time, he thought they would all like to see them attained, as they certainly would be if they had mete men like Mr. Pilkington Sargeant. Mr. Macdonald, in support, said he would like to give Mr. Pilkington Sargeant something to reply to. The speech they had just listened to reminded him of one he heard in Edinburgh in 1897. It was then said that they were not attracting the proper men into the craft, and, bearing that in mind and what they had heard that night, he would like to say that Mr. Sargeant's speech was an indictment of the Pharmaceutical Council, and was a justification of much of the criticism that had been thrown at the head of the Pharmaceutical Society in the years past. He would like to know what sort of local association Mr. Sargeant or the Pharmaceutical Council desired. There were pharmacists, assistant pharmacists, unqualified assistants, and apprentices. How were they to organise those? They wanted education on what their policy was to be. They could not attract proper men into the craft if there was not sufficient remuneration; and if, as he told them in 1897 in Edinburgh, it was not the Society that raised the status of the craft, but the men who came into it, and if they were making the examination more difficult in order to get better men, then they ought to see that those who qualified and showed themselves capable of reaching that status of education and ability not only got sufficient remuneration, but that there was a place for them. He had listened to Mr. Sargeant with great interest, and was not antagonistic to him. (Applause.) Mr. Pilkington Sargeant, in reply, agreed with Mr. Righton that it was unfortunate that Latin was dropped from the preliminary examination, but he thought the action which the Pharmaceutical Council took at that time was amply justified by the fact that a few months afterwards the General Medical Council took exactly the same step. In regard to Mr. Macdonald's remarks, he asked his hearers to compare the state of education of

pharmacists in 1897 with that of to-day. To-day a student went to an approved school of pharmacy under the official inspection of the Pharmaceutical Society. They could not get better conditions in a craft whilst they had men in who were incapable of acting up to those better conditions. They must prepare their men, and then those men would better the craft. If they could induce or force a better type of man into the craft, then they could induce or force better remuneration and a better status. The President, in referring to the presence of their Liverpool colleagues, mentioned that Mr. Morton Parry had unfortunately been called to London. Messrs. Phillips, Clubb and Evans also paid tribute to Mr. Sargeant's address. Mr. Evans said he would like Mr. Sargeant to realise what they in everyday life had to perform, and make the qualification accordingly. If they kept men out of pharmacy they were only opening the way to the opening of unqualified drug shops. (Applause.)

During the evening musical items were contributed by Messrs. H. O. Draper and H. Gunson.

Marriages

PARKES—ALLEN.—At the Church of the Martyrs, Leicester, on September 2, W. A. Whitehouse Parkes, M.R.C.S., L.R.C.P., M.B., Ch.B., to Ada V. V. Allen, M.B., Ch.B., L.R.A.M., daughter of Mr. Edwin Allen, "Homestead," Westcotes Drive.

WILKIE—KINNEAR.—At the Caledonian Hotel, Edinburgh, on September 2, by the Rev. A. C. McDougall, M.A., Jack Thomson Wilkie, chemist and druggist, St. Aidans, Galashiels, to Ella Mercer, only daughter of Mr. Andrew Kinnear, Sycamore, Broxburn.

Deaths

ALLEN.—At Bournemouth, on September 3, Mr. E. J. Allen, a representative of The British Drug Houses, Ltd., aged sixty-four. Mr. Allen served his apprenticeship in the drug-trade to the late Mr. Harry Hunt, Southampton, of which town he was a native. His first wholesale experience was obtained in 1877 with George Curling & Co., then in St. Mary Axe, and now incorporated in The British Drug Houses, Ltd. He was next with Herrings & Co., Aldersgate Street, for twenty years, superintending their "wets" department before travelling for them in the provinces. From 1899 onwards he represented Hodgkinsons, Clarke & Ward and their successors (the amalgamation took place in 1909) in the South and West of England, including the Channel Islands. During the War the passage to and from the Islands was always perilous and often protracted, shipping movements being frequently suspended. Mr. Allen was on one occasion held up for five days at St. Peter Port, and was on board the "Ilex" when she encountered an enemy submarine in mid-Channel. He was never deterred, however, from making his regular quarterly calls. Mr. Allen's death occurred after an illness of a few weeks' duration. He will be missed by a wide circle of business friends.

BIRD.—At Margate, on August 27, Mr. Matthew Mitchell Bird, M.D., B.S., formerly medical superintendent of St. Mary's Hospital, London, W.2. Dr. Bird qualified as a pharmaceutical chemist in 1873, and graduated in medicine fourteen years afterwards.

LOUD.—At Trenton, New Jersey, U.S.A., on August 19, Mr. Theodore R. L. Loud, Vice-President and sales manager of the New York Quinine and Chemical Works, Inc. Mr. Loud was with the Quinine Works (a subsidiary company of McKesson & Robbins, Inc.) for many years, and his knowledge of the chemical trade was extensive. He was a man of unusual charm of manner, and enjoyed the friendship of a wide circle. Death occurred instantly as the result of a motoring accident, and the company has received many expressions of regret at Mr. Loud's sudden and early demise.

SIMS.—At his residence, Clarence Terrace, Regent's Park, London, N.W.2, on September 4, Mr. George R. Sims, playwright and journalist, aged seventy-five. In

the course of a long and distinguished career, Mr. Sims naturally became a familiar personage in more than one of the many overlapping circles that constitute the social life of London; but his chief point of contact with the drug-trade was his association with Tatcho. In our issue of February 27, 1897, we recorded the formation of a limited company for the purpose of acquiring and working his formula for a hair-specific, and some months later we published an interview with him on the subject of the preparation itself. Mr. Sims was an admirable conversationalist, and the interview still makes quite interesting reading. The word "Tatcho" was explained by him as the Romany equivalent of "real, true, perfect, holy, genuine"; and the idea of the formula was said to have been suggested by the experience of a workman employed "where some dirty substance had to be handled," who was accustomed to wipe his hands on his head. No doubt was left in the mind of the interviewer that Mr. Sims had entire faith in the preparation; and, indeed, his sincerity in every phase of his varied activities was manifest.

STONE.—The funeral of the late Mr. E. F. Stone, chemist and druggist (Stone & Son, Ltd., chemists, 166, Fox Street, Exeter), whose death was recorded in our last week's issue (p. 338), took place at Heavitree. Among those present, in addition to relatives, were Mr. W. Sayér (representing Evans, Gadd & Co., Ltd.), Mr. J. D. Hillier (representing James Townsend & Sons), and the following members of the staff of Stone & Son, Ltd.:—Messrs. Furnivall (managing director), Kendall Prowse, W. Haskings, J. Brewer, H. Bowden, and J. Kiffin.

Personalities

MR. J. A. V. BUTLER, M.Sc., has been appointed assistant lecturer in chemistry at the University College of Swansea.

MR. JULES COFMAN-NICORESTI, chemist and druggist and analytical chemist, 15, Spearham Road, Brixton, London, S.W.9, has been granted a certificate of naturalisation.

DR. M. O. FORSTER, F.R.S., D.Sc., late Vice-President of the Institute of Chemistry and of the Chemical Society, has been appointed to an important post in connection with the reorganisation of the Government laboratories in India.

MR. AND MRS. GEORGE SPEECHLY, Bishop's Stortford, celebrated their diamond wedding on September 2, and on the following day worshipped in Thorley Parish Church, in which they were married in 1862. Mr. Speechly carried on a pharmacy in Bishop's Stortford for many years; the business, to which Mr. S. T. Milbank, Ph.C., succeeded, is still known as Speechly & Milbank.

We have received from the Wellcome Chemical Research Laboratories, London, E.C.1, a reprint from the "Journal of the American Pharmaceutical Association," of an excellent biographical sketch (with portrait) of Dr. F. B. Power, who, as *C. & D.* readers will remember, was presented at Washington last year with a gold medal conferred by Mr. Henry S. Wellcome. The reprint gives in concise form the salient facts of a remarkable career.

MR. JOHN SIBLEY, a director of Paine & Co., Ltd., malt-extract manufacturers, St. Neots, has been presented by the heads of departments of the company and other friends with a mahogany cigar-cabinet, suitably inscribed and filled with cigars, in commemoration of his sixty years' connection with the business. The inscription sets forth the genealogy of the company as follows:—Jas. Paine & Son, 1862-66; William Paine, 1866-72; Paine & Atkinson, 1872-78; Paine & Co., 1878-96; Paine & Co., Ltd., 1896-1922. One other member of the gathering has a similar length of service standing to his credit, and ten others have been with Messrs. Paine for more than thirty years.

WILLIAM KING and THOMAS ATKINSON WHITEHEAD, employees of Brotherton & Co., Ltd., tar distillers, Sunder-

land, have been awarded the Edward Medal for their courageous attempt to rescue two fellow-workmen who were fatally asphyxiated in an empty still. "The London Gazette" of September 5 gives a detailed account of the incident, and from it we take the following passage:—

... one of them, William King, at once entered the still with a handkerchief round his mouth and a rope attached to his body. He was overcome and had to be pulled out. Thereupon Whitehead made two attempts to reach the men at the bottom of the still, first equipped with a gauze respirator and then with a hood with oxygen pumped into it, but on both occasions he had to be pulled out. King then made a further attempt at rescue, and went in wearing a respirator and having a safety-belt round his body. By this time other workmen had removed the pitch-pipe from the bottom of the still and began to force air in, and in the second attempt King was successful in reaching the men who had been overcome. He attached ropes to the bodies and they were drawn out; artificial respiration was tried, but they were found to be dead. The danger due to sulphured hydrogen accumulating in the still was well known in the works, and King and Whitehead were fully aware of the risks they ran. . . .

MR. GEORGE MURRAY, manager of the Edinburgh works of Duncan, Flockhart and Co., manufacturing druggists, Edinburgh and London, is retiring, after a period of more than fifty years spent with the firm. Mr. Murray began his apprenticeship in 1860 with Sang & Barker, York Lane, and on its completion had three years' experience in the retail drug-trade. He then accepted an invitation from the late Mr. John Simpson, of Duncan, Flockhart & Co., to join the wholesale staff at 52, North Bridge. When this department was transferred to the South Back Canongate (now Holyrood Road) in 1877, Mr. Murray was appointed manager; and since then he has had under him as assistants many who are now in business. Some in the home country, and others in various parts of the world, will no doubt remember with satisfaction the period spent in the Canongate beside their old colleague, and will wish him many years of leisure.



MR. G. MURRAY

Wills

MR. WALTER EDWARD GOFF, Sutton House, Hawley, Sutton-at-Hone, retired pharmaceutical chemist, who died on July 17, left estate of the gross value of £7,079 14s. 7d., with net personality £5,173 9s. 3d. Probate of his will has been granted to his son, Mr. Hugh Goff, 57, Lowfield Street, Dartford, solicitor, and his widow, Mrs. Kate Mary Goff.

MR. JOHN HENRY WALDRON, 79, Broad Street, Hanley, Stoke-on-Trent, chemist and druggist, who died on July 2, left estate of the gross value of £3,838 2s. 4d., with net personality £2,646 17s. 7d. Probate of his will has been granted to his widow, Mrs. Rachel Waldron, his brother, Mr. George Edward Waldron, schoolmaster, and Thomas Chinsura Cornwell, Ph.C., Temple Street, Basford.

MR. FREDERICK PERCY WATSON, Ph.C., 6 and 7, Bailgate, Lincoln, who died on July 4, left estate of the gross value of £4,307 6s. 10d., with net personality £1,864 7s. 7d. Probate of his will and codicil has been granted to his widow, Mrs. Edith Emma Watson, his son, Mr. Frederic John Watson, chemist, both of 6 and 7 Bailgate, Lincoln, and Mr. Frank Haydon Brackenbury, chemist, Bardney.

Trade Notes

KRENOMAR, a toothache powder, is advertised in this issue by The Proprietary Cures (Parent) Co., Ltd., 84 Albert Road, Middlesbrough.

TINS.—Goodall, Backhouse & Co., Leeds, call attention in their advertisement to their strong position as makers of tins, boxes and canisters at competitive prices.

ANDREWS' LIVER SALT.—Scott & Turner, Ltd., Gallowgate, Newcastle-upon-Tyne, make an announcement, in this issue, of interest to competitors in their window-display competition.

POSTERS ON VANS.—T. B. Lawrence, Ltd., advertising specialists, 1 Arundel Street, London, W.C.2, make an announcement of suggestive value as to the use of posters on delivery vans.

SYPHON STOVE.—Clark's Syphon Stove Co., Ltd., 164A Queen Victoria Street, London, E.C.4, explain on another page the merits of their flueless stove, which can be used with either gas or oil.

BARGAIN IN EAU DE COLOGNE.—Particulars of a special offer of eau de Cologne are contained in the advertisement of The County Chemical Co., Ltd., Bradford Street, Birmingham, in this issue.

WINTER LINES.—Mr. Robert Blackie, Shen Works, Tower Bridge Road, London, S.E.1, has a timely word of advice to offer, on another page, in the matter of preparing for winter trade.

ENGLISH LAVENDER OIL.—Stafford Allen & Sons, Ltd., Cowper Street, London, E.C.2, announce that the new season's oil of lavender is ready—a fact of interest to makers of high-class perfumes.

"RONOLEKE" HOT-WATER BOTTLE.—Attention is called, on another page of this issue, to the outstanding merits of "Ronoleke" hot-water bottles, and to the advertising on a national scale systematically carried out by the manufacturers.

FREE PACKAGES.—S. Maw, Son & Sons, Ltd., Aldersgate Street, London, E.C. (and Barnet) announce, in this issue, their policy of sending all sundries orders of the value of £5 and upwards in free cases. Particulars will be found on "Maw's page."

CORRESPONDENCE INVITED.—Harkness, Beaumont & Co., Junction Bridge, Leith, Edinburgh, call attention in this issue to their malt extract and their malt with cod-liver oil, which are supplied in drums, tins, or amber jars, with the choice of a selection of labels.

VACUUM FLASKS.—May, Roberts & Co., Ltd., 7-13, Clerkenwell Road, London, E.C.1 (and at Dublin, Liverpool and Plymouth) are offering at reduced prices a line of vacuum flasks, pint size, concerning which particulars will be found in their advertisement.

WINDOW-SHOW COMPETITIONS.—The advertisement of Thomas Christy & Co., 4-12 Old Swan Lane, London, E.C.4, in this issue, includes particulars of a forthcoming window-show competition in connection with Quin-Quenna, and an announcement of the winners in other competitions.

DEEP SEA FISHING EXHIBITION.—Cresswell Brothers (Branch, International Sponge Importers, Ltd.), 18 and 19, Red Lion Square, London, W.C.1, have been awarded a first-class diploma, entitling them to a gold medal, for their exhibit at the recent Deep Sea Fishing Exhibition.

FOR TRAPPING EARWIGS.—Referring to a reply to a correspondent in the "Miscellaneous Inquiries" column of our last week's issue (p. 356), Kay Brothers, Ltd., St. Petersgate Mills, Stockport, inform us that their birdlime and Orbite are frequently employed as suitable sticky substances for arresting the movement of these pests.

ADVERTISING MATERIAL.—Dudley & Co., 451 Holloway Road, London, N.7, have forwarded us a copy of their List No. 661, containing lists and illustrations of show-cards, window-tickets, and similar aids to selling. The scope of the list is a wide one, and we notice that Messrs. Dudley also undertake commercial printing and supply calendars and novelties of various kinds.

FOR THE COMING WINTER.—Johnson & Sons (Manufacturing Chemists), Ltd., 23, Cross Street, Finsbury,

London, E.C.2, make a feature, in their advertisement in this issue, of their malt extract, with or without cod-liver oil. Pharmacists who have not sufficiently prepared for the coming winter's requirements in these standard preparations should turn to the page in question.

PRIZE COMPETITION.—As will be seen from the advertisement of Genatosan, Ltd., Loughborough, in this issue, thirty-three cash prizes, totalling £1,000, are offered for the best statements on methods of selling the company's proprietaries. The competition is open to all British retail chemists, and the conditions of entry are given in detail in the advertisement referred to. Chemists who are not deeply versed in the art of composition will be reassured on reading that "literary skill counts for nothing," and that the general effectiveness of the selling methods explained is the essence of the matter.

WINDOW-DRESSING AND ORDER-WRITING AIDS.—We have had an opportunity of examining samples of the window-dressing papers sent out by J. C. King, Ltd., 42 to 60 Goswell Road, London, E.C. 1. It is safe to say that among the astonishing variety of Messrs. King's window-dressing papers there is something to suit all tastes. Some suggest polished woodwork; others, baize; others, again, wall-paper of the most artistic order. With this range to draw upon, a dowdy window is out of the question. The "Charterhouse" duplicate order or memorandum book is made in several styles of heading, so as to suit the individual user. The size of the pages is 8 in. by 4½ in., and the perforating is carefully done so as to ensure a clean separation. The detachable leaf is made from a good white bank paper, and the price is moderate.

Business Changes

MR. S. B. BRADSHAW, chemist and druggist, has acquired the business of Mr. H. Mills, chemist and druggist, 158 High Street, Berkhamsted.

MR. D. J. GRANT, chemist and druggist, has acquired the business of Mr. K. R. Gladden, chemist and druggist, 567, Finchley Road, London, N.W.3.

KILMER & Co., manufacturing chemists, have removed their offices and warehouse from 173 Marylebone Road, London, N.W.1, to 214-215 Brixton Hill, S.W.2.

ASSOCIATED PRODUCTS, LTD., Kemdent Works, Denmark Road, West Ealing, London, W.13, have taken over the laboratories of the Western Dental Manufacturing Co., Ltd. The business will be carried on on similar but more extended lines.

MR. J. W. TORR, chemist and druggist, has acquired the business of Mr. E. Hoyle, chemist and druggist, 26, Tyrrel Street, Bradford. Mr. Torr has been manager for over fourteen years for Boots, Ltd., at their branch in Coney Street, York.

THE ANGLO-AMERICAN OIL CO., LTD., has taken over, as from September 1, the business of The William Browning Co., Ltd., manufacturing and export chemists, Albert Street, Park Street, London, N.W.1, with the exception of Semprolin, Carmex, Detezine, and "O.T.P." dental preparations.

THE business of the Keene Co. (in Bankruptcy), manufacturing chemists, London, W.C., has been disposed of by the trustee (Mr. Parkin S. Booth, accountant to The Association of Manufacturing Chemists, Ltd.) to Mr. H. Newhouse, who, it is understood, is shortly forming the business into a limited liability company.

Information Department

INFORMATION WANTED

C/19.	Bamber oil	D/308.	Eau de SUBLIME
L/309.	Brown's "Star Cross" bandages	L/19.	Kajadore perfumes
B/69.	Cumol catgut ligature (Kronig's process).	E/248.	Quinine and Rosemary-Hair Tonic
B/268.	Hill's national cure for Consumption	S/178.	Valentine's hair tonic
		B/69.	Wm. Stone model Dispensing Balances

Observations and Réflections

By Xrayser II.

Assistants in Sweden,

one gathers from your last week's interesting "leader," have only to be born : the different associations of pharmacists, between them, seem to do the rest. I sincerely hope we shall not adopt here any such system as the one you describe—not that most of its features are not admirable in themselves, but that I have a reasoned, as well as an instinctive, preference for freedom of contract and individual choice of action. Even as a child I resented the go-cart in which I was taught to walk, and adult experience has confirmed my opinion that the freer one is to follow one's own inclination in the conduct of one's own affairs the better both for oneself and for others. Blake's "damn braces, bless relaxes," may put the truth in an extreme form, but it remains true that reasonable freedom of action is essential to true manliness. The individual may be too much sacrificed to the community.

Book-plates,

about which I have written before, do not seem to appeal to British pharmacists, and I am afraid Dr. Hofmann's appeal for copies (*C. & D.*, September 2, p. 337) will meet with but a poor response. To most of us, indeed, a book-plate would be much like a military decoration to a soldier who had no coat on which to wear it ; we are not, as a rule, possessed of large libraries. Our books are, I fancy, mainly tools, or else means of amusement over which, like Sarah Battle, we unbend our minds at an odd time after a game of whist or some similar serious occupation. But a book-plate speaks a pride in books, and a love of them, which are rare not among our pharmacists only but among Englishmen of the trading class generally. The lending library is with us the enemy of the private library, and the habit of buying books for continuous use (except as tools) is not much indulged in by busy men. Books do very well for presents, but a chemist does not often, I fancy, spend a sovereign on literature for himself. I confess with shame that it is a long while since I, a professed book-lover, did so. As for book-plates, I never knew a pharmacist who possessed one, and though I have searched all likely places I have never met with one that could be classed as pharmaceutical in the sense that it belonged to a pharmacist in business, except those that have been referred to in the *C. & D.*.

Erasmus Wilson's Hair Lotion,

as originally prescribed, contained aqua mellis, but what particular preparation so called was meant? Not one, I fancy, resembling very closely the aqua mellis of the B.P.C., which has little but honey in common with the one in Rennie, taken from the "Compleat Course of Chemistry" of George Wilson, apothecary to King James II. This, says the writer of "The History of Perfumery" in "The Enthusiast," the organ of the House of Vinolia, is still used in the famous hair lotion, and gives it its characteristic odour. But is it certain that Sir Erasmus intended this? George Wilson's recipe was known as "Sweet honey-water," and was recommended by its inventor not for the hair, but for washing the hands and face. There was, however, an earlier preparation, to which the name of aqua mellis is given in some dispensaries, and of which Quincy says : "It is affirmed to be good to make the hair grow, and used so much for that purpose by rubbing any bald place with it, that it is to be met with in every shop, although it is of no account for any one thing else." I have not seen the question raised before, but is it possible that this, really a distilled spirit of honey, was in the prescriber's mind?

Java

has become as famous for its cinchona as in olden times it was for its pepper, which, with cotton, formed the staple of its trade. Edmund Scott, in his account of the island (1602-5) gives an amusing narrative of the strife between the Chinese, the Dutch, and ourselves to secure the lion's share of the trade in this article, which strife seems to have been intensified by the effects of the pepper on the temper of those who dealt in it. The Dutch were appar-

ently more eager than judicious in their business. The Chinese, says Scott, "those honest and fair-dealing people," had got a way of mixing dirt and water with their pepper, and the Dutch were "so greedy of trade" that this "trash" went off very well with them, much to the amusement of those natives who were in the secret. The English engaged in the trade were "much disordered by the suffocating fumes" in the houses in which the pepper was milled, and we are to infer that they got a purer article. The Dutch have become more astute since then, if we may judge by their success in the cinchona trade, and we, perhaps, a little less energetic in our competition with them.

In "My Moorland Patients"

Dr. R. W. S. Bishop tells a story of a doctor whose pronunciation of the word "enema," with the accent on the second syllable, was rebuked by his patient, and a good-natured friend, referring to a recent note of mine on the subject, marks the passage for my benefit. Well, my withers are unwrung. I still maintain that in English the prevailing pronunciation was, from the first (so far as we can ascertain it), "eneema," not "ennema." Alleyne so marks the word even in the Latin, and though this cannot be defended, it is pretty good proof of English custom early in the 18th century. Bailey's English Dictionary has the accent on the second syllable, and so has Ogilvie's Comprehensive Dictionary. My own recollection is clear that when I entered pharmacy, and years after, the other pronunciation was rarely, if ever, heard, and though the O.E.D. styles this the "normal" one, it adds that "enéma" is "in very general use." The contention that English accent should always follow Latin or Greek quantity cannot be seriously maintained, and what about the plural "enemas"? If this is allowed (and the O.E.D. gives it as the usual form), it is mere pedantry to insist on the Latin pronunciation of the singular in English use.

Tobacco,

says "H. J.," writing in the "Glaxo Service Bulletin" of July last, "is believed to have been introduced to England between 1560 and 1565 by Sir Walter Raleigh and the then Governor of Virginia, Mr. John Lane." In point of fact, tobacco was first brought to England, or at least first made known here, by Sir John Hawkins, about the year 1565, when Raleigh was 13 years old. In 1565 there was no such place known as Virginia, and, consequently, no Governor of Virginia. Raleigh's first abortive expedition to the coast took place in 1584, his second in 1585, and he did not accompany either of them. The second was under the command of Sir Richard Grenville, with whom was Ralph (not John) Lane. Lane was left as Governor of the Colony, but within a year was brought back to England with the other survivors of the expedition—103 in all—by Sir Francis Drake. Among these survivors was Thomas Hariot, the mathematician, who in 1588 published a tract in which tobacco and the manner of smoking it, learnt from the Indians, were described. Raleigh, however, is said to have brought the habit of smoking into fashion, though even of this there is, according to the late Professor Arber, "no demonstrative proof."

Myrobalans

not only are now official with us, as mentioned in the interesting "Report" upon them, but were in all our old Pharmacopœias until they were dropped in 1788. One scarcely sees, however, why they were retained so long, since they were not, as now, used in astringent ointments, but taken internally, mainly for their purgative property, and that only as a virtually negligible ingredient in some of the more composite preparations, of which, says Quincy, they "rather clog than assist" the operation. Five sorts were known and employed—the citron or yellow, the Indian or black, the chebule, the Bellerick, and the Grublack, the first named (*M. citrina*) being preferred. The remark quoted from Quincy seems to show that, although they were ostensibly used as purgatives, the original reason for their use was to moderate the action of the other purgatives with which they were combined. Culpeper says they have a tonic action on the heart. It was known that they were not all from the same tree and that they had somewhat different properties.

"SANITAS" EMBROCATION

SHOULD BE STOCKED
BY ALL CHEMISTS.

With Only
One Writing The McCASKEY SYSTEM The End of
Drudgery

FIRST AND STILL THE BEST

INCREASES YOUR PROFITS

THE McCASKEY REGISTER CO., WATFORD

(5)

S.V.R.—Absolute Alcohol
AND
CHEMISTS' WINES.
Jas. Burrough Ltd. D.1 Cale Distillery, Hutton Rd.
LAMBETH, S.E.11.

M. NAEF & Cie
(Late CHUIT, NAEF & Cie)
GENEVA

Synthetic & Aromatic CHEMICALS

OF EXCEPTIONAL QUALITY

SPECIALITIES:

Bouvardia	Rose (various)
Cyclosia	Jasminia A
Dianthine	Lilafleur
Muguet	Narcissus
Violet (various)	

□□

SOLE AGENTS—

P. SAMUELSON & CO.
27 Mincing Lane, London, E.C.3

Who are also direct importers of

**MUSK, CIVET, and all
ESSENTIAL OILS**

Telephone: Minories 1660. Telegrams: "Moschus, Fen, London."

REYNOLDS & BRANSON, LTD.

Grand Prix LEEDS. Turin, 1911.

PHARMACEUTICAL PREPARATIONS.

Tinctures, Ointments, Pills, Tablets, Suppositories.
Standardised and Clinically Tested Galenicals, &c.

SURGICAL INSTRUMENTS.

X-Ray & Electro-Medical Apparatus, Dressings, &c.

AERATED BEVERAGES.

Sparkling Phosferrade, Puritzer, Dry Ginger Ale, &c.

SCIENTIFIC APPARATUS.

(Chemical, Physical and Photographic), Balances and Weights,
CHEMICALS FOR TECHNICAL AND ANALYTICAL PURPOSES

L I Q U I D
STERNS LTD.
80 Royal London House,
Finsbury Square,
London, E.C.2. (2)
P A R A F F I N

Depression in Seed-oils

THERE has been a marked general depression in vegetable oils, which was doubtless accelerated by the recent severe slump in linseed-oil, this representing about £10 per ton in a comparatively short period. At the end of July the London spot price of linseed oil was around £45, and has since collapsed to about £34, while the value of River Plate seed suffered over that period, a break of roughly £3 to £4 per ton, according to position, with shipment of new crop in the first quarter of next year offering down to £16 per ton. Depressing factors have been many. To begin with, the heavy import duty, equal to £12 per ton, enforced by the United States on linseed-oil, as mentioned in our market columns recently, had certainly a most depressing effect on this market, and inevitably reacted upon the seed on which the Americans likewise propose an increased duty. The whole of the trade in oilseeds and the by-products subsequently felt the adverse effect of the European political tension and the débâcle in the

Continental rates of exchange. The value of cotton-oil has also come down substantially to about £34 for Egyptian crude, which compares with £41 a month or so ago, and the fact deserves notice that the current price now closely approximates that of linseed-oil. It is now possible that cotton-oil may show greater resistance to the depressed feeling than the premier oil, because of the notably reduced American production of cotton, inasmuch as there is not the least prospect for a long while yet of American cotton-oil becoming available for export to Europe, as in pre-war times. Rape oil has also depreciated in sympathy with kindred products, including soya bean oil. There is a slackness of business at the moment, speaking generally, which, coupled with want of confidence, has induced fears that matters may yet get worse ere there is anything like an improvement in the demand from consumers. The tabulated figures given below clearly show the sharp break which has taken place since the close of July last :—

Spot prices (Per ton)	Dec. 31, 1920	Dec. 31, 1921	Aug. 1, 1922	Sept. 1, 1922
	£ s. d.	£ s. d.	£ s. d.	£ s. d.
River Plate linseed .	18 10 0	17 0 0	20 0 0	17 0 0
Linseed-oil .	41 0 0	28 10 0	45 0 0	34 10 0
Cottonseed, Egyptian	13 10 0	13 0 0	12 0 0	10 10 0
Cotton - oil crude Egyptian . . .	43 0 0	37 0 0	41 0 0	34 0 0
Rape seed, Tora . . .	23 0 0	17 10 0	19 0 0	17 0 0
Rape oil, crude . . .	69 0 0	45 0 0	43 0 0	40 0 0

It will be seen that under the last date mentioned prices all round, with the exception of linseed and its oil-product, have already dwindled to well under those that were current at the close of last year. The value of linseed-oil is still considered unduly dear by consumers compared with the present cost of seed, although the premium on spot delivery, which some time ago amounted to fully £4 per ton, has been about cut in half. For the present the seed-crushing industry is in the throes of uncertainty. Seeing that this month, the advent of which usually gives signs of some revival of interest for autumn needs, has been entered upon with no indication of relief from the depression, the belief has spread that there is not much prospect of any important recovery in values over the balance of this year, if the trade demand is to revive to any material extent. In fact, some suspect that the depression may yet spread further in commercial and industrial circles. Adverse economic conditions are to some extent against a renewal of speculative enterprise in seed-oils, although crop prospects are, on the whole, none too good and rather mixed. The linseed-crop news from India is satisfactory enough, the acreage being expected to be at least fully maintained, but reports from the River Plate have lately revealed deterioration in the crop owing to bad weather, while this year's crop in the United States has suffered from hot dry weather. The cotton crop outlook in America is decidedly worse, but, on the other hand, the European markets should be well assured of ample supplies either from Egypt or India, while a considerable extension of the acreage has been reported from India under cottonseed. The Continental demand for most seed-products for weeks past has been considerably curtailed under debased currencies, especially the mark, and it remains to be seen to what extent it will revive now that there is more hope of improvement in the exchanges, since a temporary agreement was apparently arrived at among the Powers in regard to the reparations question. Home crushers of linseed being no longer able to rely on any important demand from America for their product, the exports of which have fallen off greatly since July, their takings of the seed are being kept down for the present as a matter of precaution, especially in

view of the recent pronounced weakness in the North American and River Plate markets. That shippers at the latter source and also in India have been eager to push further sales has not aroused much surprise, since it has become clear that the unshipped surplus of the Argentine crop had been considerably underestimated. An indication to that effect was, at any rate, afforded by the fact that the returns of the River Plate visible supply tacked on the quantities already shipped this season already disclose an aggregate appreciably in excess of the official crop estimates. These will probably be revised in order to remove the discrepancy, as we already suggested in our editorial columns of July 15. Our total imports of linseed for the first seven months of this year amounted to 217,071 tons, compared with 222,194 tons and 216,151 tons respectively in the same period in the two previous years. The deficit against last year is thus small, and the quantities now afloat to this country and the Continent are heavy and quite as large as at this time last year.

The Uses of Methylated Spirit

THE allegations of the improper use of methylated spirit which from time to time find their way into the public Press are necessarily a matter of concern to those whose duty or interest it is to ensure that no avoidable abuse of the article shall take place. The Commissioners of Customs and Excise, on whom rests the task of administering the law imposing the spirit duty, and the traders, who supply or use the spirit, naturally find themselves at one in their desire to prevent the misuse of methylated spirit. But, human nature being what it is, we may doubt whether any restrictive regulations, however ably conceived and efficiently and honestly carried out, would guarantee against abuse in every instance. It is important to recognise this in the face of the risk of ill-considered legislation on the subject of the consumption of alcohol, with which we may at any time be confronted. Frankly, we think that the authenticated instances to be found of methylated-spirit drinking in this country are insignificant, though we do not shut our eyes to the fact that those whose zeal for the suppression of the use of alcohol as a beverage is not greatly tempered by discretion may at any time find some opportunity of getting the law altered for the promotion of their pet object without sufficiently considering the effects such legislation may have on legitimate trade. However this may be, we feel sure that members of the chemical and allied trades are not likely to give any ground for complaint so far as regards an honest compliance with the provisions of the law; and this, we think, will be found in the end to be the best security against any interference with the exercise of their business. If they do transgress, it is likely to be because of some obscurity in a provision of the law or regulations. We have quite recently had put to us the question whether a formula containing industrial alcohol passed by the Board of Customs and Excise can be used subsequently as a basis for other preparations. The answer is in general terms that it can; but this has to be understood subject to the restriction imposed by statute that no one may use any methylated spirit or methylic alcohol or any derivative thereof in the preparation of any article capable of being used wholly or partially as a beverage or internally as a medicine. Further, it has to be kept in mind that where the Board of Customs and Excise has given permission for the use of industrial methylated spirit for certain purposes the spirit is to be used for the purposes for which it was expressly authorised and for these

only. A question might also arise if the use of a still for the purpose of the recovery of the spirits were contemplated. In such a case application would require to be made to the Board for permission to use the still, and the spirit recovered must not be removed from the premises in which the use is sanctioned. Nor does the catalogue of possible difficulties stop here. No process is allowed to be followed which might so purify the spirit as to render it capable of being used for potable purposes. As an illustration, we take the case of an article in common use—finish. This requires no licence for its sale, and its use is in general unrestricted; but it would not be permissible so to deal with it by any process of dilution or otherwise that the result would be that the liquid would contain less than the statutory admixture of shellac—i.e., three ounces to the gallon. It may be possible when we have passed out of the period of war duties on spirits to re-adjust the regulations governing the use of spirits for industrial purposes with a view to giving traders a greater measure of freedom in handling them; but at the present time any relaxation is not to be expected, even if it were in the interests of the public desirable.

The Franco-Hispano Commercial Treaty

THE recently-signed commercial treaty between Spain and France concedes to each country a specially favourable treatment on the entry into each country of a number of products exported by the other contracting party. Article 1 stipulates that the natural products and manufactured goods enumerated in schedule A attached to the treaty, when exported from Spain or the Spanish possessions, shall on entry into France and those French possessions in which the French customs tariff is in force, enjoy the minimum rate of duties. However, Spain may not claim the benefit of the most-favoured nation régime in the event of France granting certain special reductions to imports proceeding from French possessions, nor in consequence of any special arrangements which may be entered into by France with neighbouring countries as a result of economic unions, nor in the case of France making temporary concessions with regard to the admission of goods imported from those countries with which she was at war during 1914-1918 for the sole purpose of facilitating financial settlements between France and these former enemy countries. In the case of Spanish natural products and manufactured goods included in schedule B, the percentage of reduction on the difference between the general and the minimum customs duties of the French tariff which these articles will enjoy on entry into France is indicated against each article. These percentages will remain unchanged, whatever alterations may be introduced in future in the French tariff.

Schedule C states the rate of duty to be levied on entry into Spain and the Balearic Islands of a number of French natural products and manufactured goods, while all other goods of French origin will enjoy the benefit of the lowest Spanish customs charges. Article 3 provides that in the event of Spain reducing the customs charges on any of the articles enumerated in schedule C or of granting a specially favourable treatment to any other foreign country with regard to these articles, the rate of duty therein enumerated will be automatically reduced. However, France cannot claim any benefits resulting from a preferential treatment which Spain may grant to goods imported from Portugal or from the Spanish zone in Morocco. In the event of any alterations in designations being made in the respective tariffs, or should any single headings receive a more

specific interpretation, both countries will concede respectively the benefits of the lowest rate of duty resulting from such modifications. Both countries will act in concert to suppress smuggling along their respective frontiers and in their ports, and for this purpose conversations will take place regularly, beginning six months after the ratification of this treaty. In the event of either country introducing new prohibitions restricting the exportation of certain goods, on demand of one or other of the high contracting parties the question will be examined of prejudicing to the least possible extent the commercial relations between both countries, which might be effected by such prohibitions. Either party may demand that goods should be accompanied by a certificate of origin on their entry into the other country, and the form which this certificate will take is embodied in the treaty. The question of the status of commercial travellers and their samples is also exhaustively dealt with in the treaty, the latter including the form decided upon for the legitimation card to be issued to commercial travellers. Among the articles benefiting by a reduction in the tariff charges of both countries are a large number of chemical compounds, medicines, perfumery, etc.

German Reparation Dyestuffs

IT is common knowledge that the imports of German dyes which have been taken over by the Government under the Peace Treaty as Reparations since December, 1919, have been disposed of by the Central Importing Agency. These dyes are still coming in at the rate of about 350 tons a quarter. The C.I.A., as it has generally been known in the trade, acted as sole agents on a percentage basis, and have during the last three years sold large quantities of these dyes. It was, and very rightly so, part of the agreement with the Government that this agency should not trade in reparation dyes for their own account. Now comes the sudden and startling news that the agency was closed on August 31, and that the British Dyestuffs Corporation, Ltd., had been appointed by the Board of Trade as the new agents for all reparation dyes received from Germany. The agreement between the Government and the Corporation is, we understand, very similar to that which existed with the C.I.A., with the important exception that the British Dyestuffs Corporation are not barred from purchasing whatever reparation dyes they like for themselves and then re-selling them at a much higher price. The reason for the abrupt closure of the C.I.A. is not known. No official notice of the change has as yet been published, although it is an accomplished fact. The whole matter is shrouded in mystery, with the Government department concerned refusing to say why it has been found necessary to appoint new agents. However, sooner or later the matter will be brought before the House of Commons after the recess, and at least some of the facts disclosed.

Food Colouring-matters

THE United States Department of Agriculture has issued, under the date June 5, a decision (No. 184) amending a previous decision (No. 180) respecting dyes permitted in foods. The essential part of the circular reads as follows:—

Hereafter the coal-tar dyes which will be accepted for certification, subject to the provisions of Food Inspection Decisions 76, 77, 106, 129, and 159, shall be the following:—
Red shades.—56 Ponceau 3 R. 107 Amaranth. 517 Erythrosine.

Orange shade.—85 Orange I.

Yellow shades.—4 Naphthol yellow S. 94 Tartrazine. Yellow A. B. (Benzeneazo- β -naphthylamine). Yellow O. B. (Ortho-tolueneazo- β -naphthylamine).

Green shades.—433 Guinea green B. 435 Light green S. F. Yellowish.

Blue shade.—692 Indigo disulfoacid.

The numbers preceding the names refer to the numbers of the colours as listed in A. G. Green's edition of the Schultz-Julius Systematic Survey of the Organic Colouring Matters, published in 1904.

In view of the inquiries that we frequently receive as to dyes suitable for use in confectionery and so forth, we have reprinted the above list as an indication of the results of practical work in this subject.

The Etymology of "Pharmacist"

MUCH-APPRECIATED contributor to the columns of THE CHEMIST AND DRUGGIST, who sometimes discourses on the ins and outs of things pharmaceutical, was recently asked if he had come across an essay by Mr. Morley Roberts, the author, in which a possible light is thrown on the remote origins of the word "pharmacist," and a possible connexion between "pharmacien" and "freemason" is tested. Professor Arthur Keith, in his foreword to "Afarce in the Human Body," the volume in which this essay in question (entitled "The Pharmakos and the Lincine") occurs, writes:—"As I read over the manuscript pages of these essays by my friend Morley Roberts, it came back to me the memory of a night in London, when I set out from a scientific meeting to guide a provincial colleague to his hotel through streets obliterated by a blinding November fog. The way was familiar to yet in the end the stranger from the country proved better guide, for it was he who ultimately took us right to our destination. By the mere use of his well-fed imagination my friend had mastered the details of London better than I had done after years of dence...."

At one of the chief Athenian festivals, called the Ergelia, Mr. Morley Roberts tells us, a part of the ceremony was to beat two persons with rods of figwood and squills and drive them out of the city to a place of sacrifice, where they were stoned to death, their bodies burned, and their ashes strewn to the winds in the belief that their sacrifice would propitiate the gods of fruitfulness. These victims were the scapegoats of the community and were called "pharmakoi." How to connect their origin in the Greek word "pharmakon," meaning medicine, with "pharmakos," meaning a scapegoat, is the problem Mr. Morley Roberts sets himself in this interesting essay. He believes they have a common origin in two original roots in the Turkic family of speech. Turkish there is a word spelt "vourmak," which means "to beat." In this word, "vour" is the root which means "beat," and "mak" means "make." Thus "vourmak" means literally "to make blows" or "to hit," and its Greek derivative "pharmakos" signified person the beating of whom acted as a charm or medicine against evils arising from the failure of fertility. Morley Roberts says: "If I am right, it is curious to consider that our word 'pharmacist' has for its early meaning exactly that of the ancient medicine man or priest." On the connection between pharmacy and masonry it is best to quote from the essay:

There is another interesting point connected with "harmakos" which I have not seen mentioned. All over East the word "farmacion" is used with the meaning of an outlaw, and quite commonly with that of a cunning, bad-drinking enemy of religion, a man who is a satanist or devil worshipper. Of course, by a sort of meiosis, it may sometimes mean a mere scoundrel, just as by a kind of hypokorism, the equally interesting "epikouros" is used in Northern Africa, where this verbal descendant of the name of the great philosopher has come to mean an enemy of Islam, a Christian, and an atheist or a scoundrel. There does not seem to me to be any doubt whatever that "farmacion" is actually the same word as "pharmakos." It is used in Turkey and Asia Minor, and as far east as Afghanistan. It may be that the ancestors of the Greeks borrowed it originally from some Turkic race, and returned it again to the Mohammedans with a fuller connotation. Oddly enough, the word "farmacion" has since its readoption by Easterners taken on a new meaning. It now often means "a Freemason," one who is looked upon by the orthodox as an atheist and a scoundrel, a sufi and one highly irreligious. Not being a Freemason myself, I know nothing of its ritual, so far as I can learn, members of his society, or those who are really instructed in its ritual and doctrines, regard their common name as very uncertain in its etymology. Its present or common meaning is undoubtedly false philology. Our word "Freemason" is, of course, a translation from the French "franc-maçon," but to my mind, "franc" is nothing but a metathesised form of the "vour" of "vourmak" and the "phar" of "pharmakos" with an added euphonious seal. Thus, it is only by a later verbal accident that the "maçon" was turned into "mason" and connected with

masonry and building. Probably, then, it is actually the same root as the "mak" of "vourmak" or "farmacion." The early societies and secret orders of the East (the East, as might be expected, being full of secret orders) have linked themselves on to masonry as the last surviving order which used their secret marks. Probably, to begin with, these marks had no relation to building. It seems, then, that, etymologically, the Freemasons are no more than a band of "pharmakoi."

Whatever the final value of the essay may be, judged as a contribution to etymology, Mr. Morley Roberts has certainly given an imaginative value to the word which symbolises our calling.

Pests in the Pharmacy

By "Jay Deeb" and "A Pharmacist."

Now is the time, the holiday season being near its end, to make a clean sweep of these enemies of the haughty culturist. The chief varieties are:—

(1) *The Wire Pest* (*Telephonis communis*).—May be recognised by its slender green stem and shiny black head. Emits a ringing sound which is highly irritating when repeated. Should be eradicated with an axe, and the site painted over with tincture of iodine.

(2) *The Kustomer* or Wood Bee (*Byer*).—Very troublesome in the pharmacy, the female being specially persistent. Sweep out the premises with a hard broom and hermetically seal the door. Very loud shouting will sometimes scare them away, but they are apt to recur. Calx chlorinata is not without its adherents, but it is somewhat unpleasant if it adheres to the user. In extreme cases, set fire to the premises and send in the bill to your insurance office.

(3) *The Prentice Worm*.—Usually classed as a pest, but really does more good than harm in the pharmacy, and should be encouraged. The creature, however, is all but extinct.

(4) *Statementi Repeating*.—Infests the letter boxes of pharmacists continually, but early every month becomes most numerous; found inside envelopes. It has been traced by various signs to wholesale houses which keep a special staff inside a cubicle to breed and send out this pest. It acts upon the nervous system of the recipient, and eventually eats its way into the bank ledgers and obliterates any credit balance standing. For treatment see section 6, below.

(5) *The Travel Beetle* (*Pulex commercialis*).—Easily recognised by its curious appendage, or "bag." Usually very persistent, but can be got rid of by the exercise of a little ingenuity. A good way is to hide behind the counter, and make a noise like that of an official receiver.

(6) *The Mail Bug* (or Mail Bag).—Empties its litter on the mat or other suitable surface, and even when collected will deposit again several times during the day. The best treatment is to use a strong corrosive, which completely destroys the litter. Place in a bucket and pour over it a gallon or so of the fluid. Seal up the letter box or other means of entry.

AMERICAN PRODUCTION OF DYES in 1921 totalled 39,000,000 lbs., a decrease of 56 per cent. from 1920. The decrease is attributed to loss of export trade, the large stocks held from the previous year and the general business depression. The imports of dyes represent 10 per cent. of the domestic production. Exports of domestic dyes decreased 79 per cent. over the previous year.

SIR JOHN CASS TECHNICAL INSTITUTE.—The new session of the Sir John Cass Technical Institute, Aldgate, London, E.C.3, will commence on September 25. Students will be enrolled during the previous week. Full facilities are provided in the well-equipped laboratories of the Institute for special investigation and research. The syllabus for the forthcoming session has just been issued, and is obtainable at the Institute.

New Raw Materials in Burma

EXPERIMENTS which may be said to have been going on during the last half-century have proved that bamboos and many Indian grasses can be utilised commercially for the manufacture of paper-pulp, and as there are thousands of square miles of forests in India and Burma producing nothing else, and reproducing themselves every third or fourth year without the trouble and expense of planting, had this industry been taken up years ago there need have been no paper scarcity such as has been experienced throughout the whole world since the war broke out in 1914. But nothing was done either by the Government of India or private firms to start the industry. It has now been officially stated in India that since the conclusion of the armistice there are at least three companies or syndicates taking definite steps to erect plant for the manufacture, and that we may assume before the end of next year bamboo-pulp would be on the market, and will form a most valuable paper-making material. War conditions have no doubt prevented any rapid development of industries based on the utilisation of Indian forest produce during the last few years, but in the matter of bamboo paper-pulp this can hardly serve as an excuse for the apathy shown, seeing that the late Mr. W. Routledge, long before the close of the last century, had printed pamphlets on paper made from bamboo-pulp, and called attention to the fact that we were neglecting a most valuable manufacture. There is so much circumlocution and red tape connected with all the various departments of Government in India, that capitalists do not regard with much favour the starting of any new industry there. The Indian Forest Department produces revenue, and yet has been undermanned in every province, and only since the war has there been anything effective done in the way of forest research. India, which produces the best timber of nearly every kind, and which should be a large exporter, has for years been importing it from Australia and other places, even for such an ordinary purpose as railway sleepers. There is no good reason why this should ever be the case. But to bring about a better state of things we shall have to follow the example set us in more up-to-date timber-producing countries, such as Canada and the United States. The Indian Forest Department should be prepared to establish large sawmills equipped with the most modern and efficient drying kilns, so that seasoned timber could be made available, and in a form in which it could be utilised with the least subsequent trouble to the trade. It has hitherto been thought sufficient to float logs to a seaport, and to expect the public to buy it in such form and turn it to use. With sawmills must be associated plant for producing veneers, plywood, matches, barrels, shingles, etc. In America the relations between the development of lumbering and other industries are intimate, and one would not develop without the other. If the development of Indian forests is not to be postponed indefinitely, and private initiative and capital cannot be attracted sufficiently to deal with these matters, the Government must take them up. What has been done in the way of forest research during the war has demonstrated the great possibilities which exist here. A good deal of the investigation made had been carried through with the main object of proving on a commercial scale the possibilities or otherwise of developing certain industries. These comprise tanning extracts, chiefly in relation to mangrove bark and the distillation of turpentine from resins of Indian palms. The possibility of pine-needle oil had been fully investigated, while the chemical properties of natural varnish of *Melanorrhœa usitata* had been proved to be identical with Japanese lacquer varnish. The first researches into the manufacture of thymol made at the Dehra Dun Forest Institute from ajowan seed had resulted in the erection of a factory which now supplies a large part of the world's requirements. Later the manufacture of turpentine, resins, and gum from gum-resin of *Boswellia serrata* has been investigated, and this, it is hoped, will yield important results. In the zoological branch work has practically been confined to entomology. In

the botanical section the work of past students indicate that the teaching has borne good fruit. In dealing with diseases, the forest-botanist has suggested a line of inquiry as regards the "spike" disease that might give good results. In ecology the most important work comprised a long series of experiments in factors influencing the growth of seedlings, and has indicated a method working in the Sal forests of Northern India, which, was estimated, would reduce the regeneration period by some twenty-five years. Many other valuable investigations have been made, including the antiseptic treatment of different kinds of timber. Dealing with the best method of treatment based on durability tests extending over many years, the work done resulted in the laying down by the Government of the Upper Provinces of an extensive plant for treating pine sleepers for State railways by the open-tank process. This met with partial success, but had to be closed during the war, primarily for want of creosote. Since then the N.W. Railway has prepared a concrete scheme for the treatment of pine and fir sleepers in pressure cylinders, and was now advertising for creosote. The present and prospective values of the vast forests committed to the charge of the Indian Forestry Department are enormous, and should yearly improve under liberal administration. Indian recruits will increase, and they should be given the same welcome which had been always extended to Europeans. Every endeavour must be made, both by precept and example to instil into them the same standard of keenness and efficiency which has always characterised the European members of the service. War-conditions no doubt have generally prevented any rapid development of industries based on the utilisation of forest-produce. These being now removed, it is to be hoped improvements may be more rapid. Sylvicultural problems are amongst the most important of any, and these should be carefully studied so as to secure the success of regeneration largely by artificial and scientific methods. At the same time, the Government of India should be prepared to put back into the forests a larger proportion of the revenue which they derive from them; and, to make the Department more popular than it has hitherto been, more liberal treatment of its officers concerned with such important work should be the rule. The Forest Officer in India sees less of the amenities of civilised life in towns than those of another Department of the Government Service. He should get a more liberal amount of leave if he wants it, and pensions might with advantage be increased. The Department will gain more than it loses by such improvement in the prospects of its servants, to whose care, attention, and knowledge such important advantages will accrue to the State.

The search for new raw materials encouraged by the war has led to some interesting experiments in Burma where last year an Indian firm of repute started making caustic soda out of soapsand, of which there is a large area in Upper Burma used by the Burmese for years in lieu of soap when bathing, and which has not only excellent cleansing qualities, but is more economical than any manufactured soap. In Europe caustic soda is considered industrially as a principal basis of the soda industry, and there are few chemical industries in which it does not play an important part, whilst the combination of economic value into which it enters are numberless. The chemist employed by the Indian firm is said to be quite satisfied with the success of the experiment, and we shall doubtless before very long find locally manufactured caustic soda amongst the exports of the province. Another company under British management has largely increased its plant for making sulphuric acid, for which, owing to the scarcity of shipping, there is now considerable local demand at much higher prices than were in force before the war began. Attempts have also been made to make cloth out of the Kapok or Kabob, a silky cotton producing tree, for which there is already a fair demand in the home market. It grows easily in Burma, and its cultivation has developed remarkably in the last three years.

At the Indian Science Congress meeting in Bombay recently, Dr. Watson gave an interesting account of his experiments in the relations between the gas-absorbing

properties of coconut charcoal and its method of preparation, this material having been used to some extent the fighting fronts as a protection against German gas. Dr. Sudborough described some work carried out at the request of the Indian Munitions Board. Dr. Watson, Dr. Varma, and himself on the manufacture of glycerin by means of a ferment formed in tor seeds, and dealt with the difficulty presented by "middle layer," which retains glycerin, and so reduces the yield. Mr. D. N. Chatterjee read a note on a new alkaloid found in a plant, *Argemone Mexicanus*, which also grows in India.

Mr. J. A. Pilgrim, tannin expert to the Government of India, visited the southern coasts of Burma recently, and has reported that the country contains a number of yet unexploited, and probably valuable, tan stuffs from trees and species, in addition to a large number of species of the coastal mangrove swamps, but he thinks a visit to Arakan is necessary before any complete report is possible. Of those species he came across in the Mergui district he identified seven as species known in Borneo, yielding more or less valuable tannin, while he brought away many botanical specimens of unknown species which are collected for identification. We have been in possession of the Mergui district and Arakan since the first Burmese War of 1826. It is not creditable to our administration that it should have taken us nearly a century to investigate such a possible source of wealth in the mangroves of this lengthy coast line produce, visible to all who pass by its shores in bewildering variety and confusion, and Mr. Pilgrim's report will be anxiously awaited by all those interested in the tannin industry.

Trade-marks Applied for

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1922, p. 277.

(From "The Trade-marks Journal," August 9, 1922.)

NAKHAL"; for toilet preparations (48). By A. C. Pratt, 25 Dawson Road, Byfleet, Surrey. 426,111.

VIDOU"; for perfumery, etc. (48). By A. H. Gibbon, 3 Duke Street, Manchester Square, London, W. 1. 426,354.

KAN-YON"; for perfumery, etc. (48). By H. Holt, 9 Kilner Deyne Terrace, Rochdale. 426,481.

(From "The Trade-marks Journal," August 16, 1922.)

KUDAK"; for embrocation, foot-powder and pile cream (3). By J. Kane, 3, College Road, Moseley, Birmingham. 424,159. (Associated.)

CORNOL"; for wart and corn remedies (3). By Thompson & Capper, Ltd., Manesty Buildings, College Lane, Liverpool. 425,171

LIPOCITHINE"; for medicinal chemicals (3). By A. Casseus, 12, Avenue de la Grande Armée, Paris. 425,314

MEGGLETS"; for medicinal chemicals (3). By Meggeson & Co., Ltd., Llewellyn Grove, New Church Street, Bermondsey, London, S.E. 16. 426,507.

SECRET D'UNE MÈRE"; for medicated skin powders for babies (3). By Elise Tourdes, 30 Cité des Fleurs, Paris. 426,509.

LINAPENE"; for external medicines (3). By The Veno Drug Co., Ltd., Chester Road, Manchester. 426,565.

RHUMATABS"; for medicinal tablets (3). By Guy's Tonic, Ltd., 272, South Lambeth Road, London, S.W. 8. 426,575.

TEKARKIN"; for medicinal chemicals (3). By The National Bio-Chemical Laboratory, 452, Fifth Avenue, New York, U.S.A. 427,073.

KRESIVAL"; for medicinal chemicals (3). By Farbenfabriken vorm. F. Bayer & Co., Leverkusen, nr. Cologne, Germany. 427,199.

SHERVIN"; for wine made from imported grape juice (43). By Evans Sons Lescher & Webb, Ltd., 56, Hanover Street, Liverpool. 426,060.

SILVER PIN" and "GOLDEN PIN"; for goods (47) and for perfumery, etc. (48). By the British Soap Co., Ltd., 29, Great St. Helen's, London, E.C. 3. 426,730/731/732/733. (Associated.)

DUNNIT"; for all goods (47). By C. Billing, 88, New North Road, London, N. 1. 426,822.

FONSAY"; for a complexion cream (48). By C. J. Guise, 4, Cornwall Terrace, York Avenue, Hunstanton, Norfolk. 425,200.

SEDOL"; for perfumery, etc. (48). By G. W. Goodwin & Son, Ordsall Lane Soap Works, Manchester. 425,260. (Associated.)

"AMBEDIA"; for all goods (48). By Dearborn, Ltd., 37, Gray's Inn Road, London, W.C. 1. 426,752.

(From "The Trade-marks Journal," August 23, 1922.)

"IVORMICA"; with device of men of various nations painted in the world. For chemicals (1). By Naamlooze Vennootschap Lak-Verf-en Vernisfabriek "Ivormica," 13-17, Willemeskade, Schiedam, Holland. 416,397. (Associated.)

"PHODEKO"; for photographic chemicals, plates and films (1), photographic apparatus (8), and photographic papers (39). By Cavendish's, Ltd., 87, Moorgate, London, E.C.2. 425,944/945/946. (Associated.)

"DINKO"; for chemicals (1). By The Wall Paper Manufacturers, Ltd., 125, High Holborn, London, W.C. 1. 426,504.

"ANTIMIDE"; for chemicals (1). By W. Jacks & Co., Winchester House, Old Broad Street, London, E.C.2. 426,692.

"DOUCIL"; for chemicals (1). By J. Crosfield & Sons, Ltd., Bank Quay, Warrington. 427,267. (Associated.)

"SONONY"; for chemicals (2), medicinal chemicals (3), and for goods (47). By Standard Oil Co., of New York, 20, Broadway, New York, U.S.A. 424,930/931/936. (Associated.)

"TARZAN"; for all goods (2) and (3). By H. F. E. Richardson, 67, Nightingale Lane, London, S.W. 12. 426,419/420. (Associated.)

"SEPINOL SILVER PINE BALSAM"; for silver pine balsam for veterinary use (2). By Roxburgh, Morgan & Co., Ltd., 41, Cavendish Street, Glasgow. 426,933.

"BROWNIE OINTMENT"; with device of brownie and toadstools; for ointment (3). By Mary E. Rothwell, 18, North Crescent, St. Annes-on-Sea, Lancs. 416,381.

"PATHOPHANES"; for protein extracts for the diagnosis and treatment of toxic-idiopathies (3). By J. Freeman, Inoculation Department, St. Mary's Hospital, Praed Street, Paddington, W. 2. 423,015.

"KOLOK"; for a liquid medicine (3). By A. MacGarvey, 175, Dundas Street, London, Ontario, Canada. 423,856.

"BRONK"; for all goods (3). By J. M. Martin, 37, Market Place, Salisbury. 424,199.

"HANSAPIAST"; for medicinal chemicals (3). By Naamlooze Vennootschap Maatschappij tot Exploitatie van Beirs-dor Producten, Ged. Glashaven 15A, Rotterdam, Holland. 425,780.

"MUTHANOL"; for medicinal chemicals (3). By G. Fermé, 55, Boulevard de Strasbourg, Paris. 426,043.

"BERAPLAST"; for an india-rubber medicated plaster (3). By Hausman (Société Anonyme), 11, Marktgassee, St. Gall, Switzerland. 427,170.

"GRAMAC"; for scientific instruments, etc. (8). By Arnold Graves, Penn's Place, Hampton-on-Thames, Surrey. 424,427.

"REPROGRAPH"; for photographic apparatus (8). By C. Janzer, 37, Hohenheimerstrasse, Stuttgart, Germany. 427,153.

"ECKANE"; for scientific instruments, etc. (8). By Arnold and S. Brook, 4-12, Palmer Street, London, S.W. 1. 427,201. (Associated.)

"MYSTO"; for surgical appliances (11). By W. T. French & Son, 23-25 St. Mary Street, Ladywood, Birmingham. 419,063. (Associated.)

"SOPHOS" and "WHAT IS SHE DOING?" on device of shield; for all goods (47) and (48). By W. Hill, 8, Watson Street, Glasgow. 426,358/359. (Associated.)

"DILLY-DALLY"; for all goods (47) and (48). By P. Lunt & Co., 37-53 Hornby Street, Liverpool. 426,427/428. (Associated.)

"TWEE" and "PRY" for goods (47) and for perfumery, etc. (48). By Wilkie & Soames, Ltd., Tunnel Avenue, East Greenwich, London, S.E.10. 426,680/681/682/683. (Associated.)

"HAIR BEAUTY," in facsimile handwriting, with portrait and signature of applicant ("Hair Beauty" disclaimed); for a hair preparation (48). By Don P. S. Amore, 4 East Street, Manchester Square, London, W. 1. 418,203.

"GONDOLA" device; for goods (48). By J. Stanworth, 48-52 Darwen Street, Blackburn. 423,813.

"GRAMOPHONE," with pictures of portable and ordinary gramophones; for perfumery, etc. (48). By W. Gossage & Sons, Ltd., Widnes, Lancs. 426,620/622. (Associated.)

"ARBAL" and "ARCANA"; for perfumery, etc. (48). By G. W. Goodwin & Son, Ordsall Lane Soap Works, Manchester. 427,283/285.

(From "The Trade-marks Journal," August 30, 1922.)

"JASCO"; for all goods (1), but not including dyes. By the J. A. Stemp Paint, Varnish and Enamel Co., Cornwall Buildings, Cornwall Street, Birmingham. 425,551.

"MULSOL"; for disinfectants (2). By K. L. Allan & Co., Ltd., Rainford Works, Rainford, Lancs. 423,478.

East Indian Sandalwood

THERE are few woods so largely used for medicine and perfume, as well as in the manufacture in India of boxes, fans, and ornamental articles of inlaid work, as sandalwood, which seems also to be only produced in some of the dry tracts of the Madras Presidency. The tree is propagated by seeds, which, however, must be placed where they are intended to grow, since the seedlings will not bear transplantation, probably on account of deriving their nourishment parasitically by means of tuberous swellings attached to the roots of other plants. The trees are cut down when between eighteen and twenty-five years old, at which period they have attained their maturity. The trunks are then about one foot in diameter, and are allowed, after the tree is felled, to remain on the ground for several months, during which time the white ants eat away the valueless sapwood but leave the fragrant heartwood untouched. The heartwood is then sawn into billets about two or two and a-half feet long. These, after being carefully trimmed, are left to dry slowly in a close warehouse for some weeks. By this means the odour is improved, and the tendency of the wood to split obviated. An annual auction was formerly held, attended by merchants from all parts of India. The largest pieces are principally exported to China and the smallest to Arabia. Those of medium size are retained for use in India. Dr. F. Mason, an American Baptist missionary, who wrote a very valuable work on Burma and its productions some seventy years ago, and who moreover had a knowledge of forestry and botany unsurpassed by any of his contemporaries, mentions that a wild sandalwood tree grew in the southern part of the Mergui district. In this he was probably mistaken, for the Mergui district adjoins Siam, and sandalwood is not found in either Burma or Siam at the present date. Since Dr. Mason's time Upper Burma has been acquired by the British—an enormous tract of country almost as large as France, bordering on China and possessing every variety of climate and soil. A large portion is still unsurveyed, though it has been under our rule for over thirty years. It is possible that there may be part of it which could grow sandalwood, and as there is a Government Forest Department in Lower Burma, this should be ascertained. Both in the United Kingdom and in most countries in Europe oil of sandalwood has largely replaced copaiba in the treatment of various diseases of the mucous membrane, and though there are three varieties distinguished in the trade—East Indian, Macassar, and West Indian—the first-named comes from the *Santalum album* and yields the product known in the fifth century B.C., and mentioned in the oldest Vedic commentaries of that period. The odour of the wood and oil of the two others, though similar, can be distinguished from the produce of the Indian variety. Whether sandalwood products possess all the medicinal virtues attributed to them by Hindus as remedies for all kinds of aches and pains may be open to doubt, but while the belief exists, and millions of families throughout the Indian Empire consider it necessary to keep sandalwood handy as a domestic remedy, it will always remain an article of high value and consideration among them; and if its supply can be increased by finding new places where the tree will grow, the trade of the country will be extended by taking advantage of the fact.

Europeans in India have testified to the value of sandalwood paste as a vermicide, and as white ants are found to avoid the fragrant heartwood while eating the sapwood this is no doubt a fact which might be taken advantage of by manufacturers of insecticides. There is a small leguminous tree, *Pterocarpus santalinus*, which grows in Southern India, Ceylon, and the Philippines, and produces what is known as red sanders wood. A fresh surface of the wood has a rich, deep red colour, which on exposure assumes a dark-brownish tint. Under the influence of alkaline solutions, alcohol, or strong acetic acid, red sanders wood yields up to 16 per cent. of a resinoid body, santalin or santalic acid, which substance is the tinctorial principle of the wood.

Shellac Trade Inquiry

A NEW volume dealing with shellac, turpentine and resin in the series of Reports of the Indian Trade Inquiry conducted at the Imperial Institute, has just been published by Mr. John Murray (5s.). It contains much information relating to the trade in lac and to the relatively new turpentine and resin industry in India, in addition to the recommendations of a Special Committee of the Imperial Institute, which investigated the possibilities of further commercial employment in the United Kingdom of the materials in question. The volume consists of four parts : I. Report of the trade in lac; II. Supplementary report on the lac trade of Burma (with an appendix); III. Report on Indian turpentine and resin (with appendices); IV. Production of turpentine oil and resin in India, a summary of special information prepared at the Imperial Institute.

THE WORLD'S PRODUCTION OF LAC.

It is well understood that there is no commercial production of lac resin outside India (including Burma), Indo-China and Siam. It is not known to what extent production can be increased in Indo-China and Siam; but it is certain that India's output can be greatly extended, if necessary. The exports of all forms of lac resin from India, Indo-China and Siam average annually about 425,000 cwt., valued at £1,350,000. Of this, India contributes almost 400,000 cwt., the rest being about equally divided between her two competitors. India's position is even more predominant than these figures indicate, because much more of the lac exported from Indo-China and Siam is stick-lac, whilst that from India is mostly clean lac resin in the form of shellac, button lac or seed lac. The actual figures for the different forms, averaged from the export returns of the three countries in recent years, are as follows :—

AVERAGE OUTPUT IN RECENT YEARS. (cwt. per annum)					
	India	Indo China	1911-12 and 1911-13	1911-12 and 1913-14	Siam
Kind	1910-11 to 1914-15	1910-13	1911-12 and 1913-14	1911-12 and 1913-14	Siam
Shellac	325,698	nil	nil	nil	
Button-lac	29,970	nil	nil	nil	
Seed-lac	11,955	nil	nil	nil	
Stick-lac	4,359	11,124	12,750		
Other kinds ¹	24,746	nil	nil	nil	
Gum-lac ²	nil	1,422	nil	nil	
Total	396,728	12,546	12,750		

¹ Includes garnet-lac, waste-lac, etc.

² Probably mostly seed-lac.

DISTRIBUTION OF SUPPLIES OF LAC PRODUCTS.

The chief destinations of exports of lac resin from India, Indo-China and Siam are as follows :—

United States.—In the years 1910-11 to 1914-15 the United States took on an average 171,803 cwt. of lac resin, made up as follows : Shellac, 155,287; seed-lac, 5,769; button-lac, 1,459; stick-lac, 341; other sorts, 8,947. These figures are from the Indian official export returns. The United States import returns for 1911-15 show a yearly average import of 173,260 cwt., the balance being taken chiefly from the United Kingdom and Germany. The average annual re-exports for the same period were 4,273 cwt., chiefly to Canada. The amount retained in the United States for consumption in this period, therefore, was 168,987 cwt. annually, which is about 42 per cent. of the Indian production. The United States is, therefore, undoubtedly the most important market for India's output of lac resin.

United Kingdom.—The United Kingdom, according to the Indian Trade Returns, received during the period 1910-11 to 1914-15 on the average 99,788 cwt. of lac resin per annum, made up as follows : Shellac, 72,879; seed-lac, 5,120; button-lac, 17,747; stick-lac, 3,718; other sorts, 324. According to the import returns of the United Kingdom, the average annual imports (1911-15) of shellac (which in these returns appears to include all varieties of lac resin) were 106,489 cwt., of which on the average 45,718 cwt. were re-exported. Practically all these imports come direct from India, the amount received

rectly from India, or from the other producing countries, being on the average only 1,674 cwt. The imports of lac resin to the United Kingdom, therefore, are equivalent to about 26.8 per cent. of India's total output.

Germany.—During the period 1909-10 to 1913-14 India exported direct to Germany 83,212 cwt. of lac resin usually, made up as follows : Shellac, 60,558; seed-lac, 5,913; button-lac, 437; other sorts, 15,654. German import returns for the period 1909-13 show average annual import of lac resin amounting to 123,146, made up as follows : Shellac, 102,072 cwt.; "gum," 21,074 cwt., of which an average of 112,732 cwt. is direct from India. There is a remarkable discrepancy between this figure and that given by the Indian Port Returns, the difference being no less than 29,520.

The re-exports from Germany during the same period averaged yearly 26,500 cwt., so that the actual annual average consumption in Germany during this period was 96,646 cwt. There seems to be no reason why India's re-export trade in lac resin to Russia and Scandinavia should not be done direct by India, or through

United Kingdom if that is more convenient. It should be noted that according to the Indian Trade Returns, whilst the United States and the United Kingdom pre-occupy in the shellac, seed-lac, button-lac, and stick-lac of India, Germany is usually by far the largest buyer of "other sorts," including waste and refuse; though the United States has also in recent years begun to buy considerable amounts of these poorer qualities. These low grade "other sorts" are believed to have been used in Germany for making cheap varnish, which is to a certain extent exported to India.

Other Countries.—France ranks fourth as a buyer of Indian lac resin, and also takes the whole of the stick-lac produced in Indo-China; Holland ranks fifth. The next important buyer is Austria-Hungary, followed by Japan, Italy, Belgium and Australia. Canada and Russia are fairly important markets, but receive their supplies chiefly via the United States and Germany respectively. The Report gives particulars concerning the industrial uses of lac resin, after which it describes the

PRESENT AND PRE-WAR POSITION

The lac industry which is not well organised; there is no effective central control of the granting of leases for cultivation and collection of lac, and the conversion of stick-lac into the finished resin (grain-lac, button-lac, ellac, etc.) is left for the most part to small manufacturers, with the result that little has been done to improve methods of manufacture or the forms in which the resin is marketed. At the most, three or four factories only have had in the past the benefit of skilled, scientific supervision and experience, and that has not always been sufficient. The methods of trade are cumbrous. There intervene between the collector of the stick-lac and the actual industrial consumer of the resin in this country as many as seven persons, viz., the lac manufacturer, the broker in India, the merchant and shipper, a banker, the London broker, the shellac trader, and sometimes the small dealer and manufacturer of shellac varnish. Large buyers are able to dispense with several of these intermediaries, and certain of the lac-resin factories in India, under the control of Europeans, have sold direct, or at some remove, to British manufacturers; but such direct sales are the exception. This complex method of trading is probably the chief factor which has made shellac one of the most speculative commodities on the market. It is not easy for the consumer on this side to take any action to improve the position, because the quantity of shellac used by one consumer is generally comparatively small, and effective concerted action is difficult to arrange between a large number of small users in different industries with varied interests. Another important matter is the frequent adulteration of the manufactured forms of lac resin, especially shellac and button-lac. The evidence placed before the Committee shows that button-lac adulterated with as much as 50 per cent. of common resin has come on to this market. Indeed, one witness stated that when shellac is dear, the material offered for sale from India may contain anything from 5 to 50 per cent.

of resin. It is generally stated that shellac cannot be made unless at least 5 per cent. of resin is added, and so long as the trade demands shellac and button-lac in preference to other forms, admixture to this extent of resin must be submitted to; but it is important to remember that the addition of resin, even to the extent of 5 per cent., detracts from the special qualities of lac resin, and assists the trade of the purveyor of natural and artificial substitutes, who can compete more easily with adulterated lac resin than with the genuine article. The large buyer protects himself by buying on the results of analysis, but the small buyer is unable to do this, as his small purchases do not warrant his paying fees for analysis. The Committee are assured that in the electrical industry and in the manufacture of hats and crape, unadulterated lac resin is essential; and, though they have not investigated this point so thoroughly in connection with other industries, they have no reason to believe it is less important there. In the case of some forms of spirit varnish and lacquers, more "body" is required than is obtained by using grain-lac alone, and for this reason shellac or button-lac containing resin and opium is preferred; but varnish manufacturers also object to an excess of resin.

LINES OF ACTION CONSIDERED

The evidence placed before the Committee shows that the chief obstacles to a large extension in the use of lac resin in the United Kingdom are three in number :

- (1) Fluctuations in the price of the resin.
- (2) Adulteration of the resin.
- (3) Competition of cheap, foreign-made goods containing lac resin.

The first two of these obstacles can apparently only be overcome by better organisation of the industry in India. For this reason, the Committee have embodied in the report some suggestions for consideration in India. The Committee realise that this is essentially a subject for inquiry in India, and in putting forward these suggestions they merely desire to indicate lines of action which appear to be worth serious consideration as likely to lead to results advantageous both to India and the rest of the Empire.

In making these suggestions, regard has been paid to the various reports and monographs on the lac industry which have been published from time to time in India by officers of the Forest Department and others, and it is believed that none of them are in conflict with the information given in these reports as to the needs of the industry. The questions which appear to the Committee to require attention from this point of view are as follows :

(1) Systematisation of the method of leasing concessions for the collection of lac. (2) Improvement in the cultivation and collection of lac. (3) Modernisation of the methods of preparing lac resin for the market. (4) Definition of the forms of lac resin, and action to prevent adulteration. (5) Simplification of the system of trading. Action has already been taken by the Imperial Institute to obtain a representative collection of lac-wares from India for exhibition in London; and, when this collection arrives, efforts will be made to interest importers in these wares and to place them in communication with producers.

SUMMARY

In summarising the shellac industry, the Special Committee make the following suggestions :

(1) That the method of leasing concessions to collect lac should be improved and systematised, after an inquiry in India; longer periods of leases and a sliding scale of royalties are proposed.

(2) That greater attention be paid to improved methods of cultivation and collection of lac, and an advisory and supervisory agency should be constituted.

(3) That one or two large-scale Government factories be started to put the manufacture on a thoroughly efficient basis and safeguard the interests of India and the Empire; lac-ware manufactures to be encouraged in India.

(4) That definite works and grades be established, in consultation with the Imperial Institute, to ensure the maintenance of standards of purity and quality.

(5) That the system of trading be simplified, and more direct relations established between the Indian producer and the British user.

Trade Report

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C.4, September 7

BUSINESS conditions in Mincing Lane remain much as previously reported, and there are few signs of any activity in the drug section, the markets being almost featureless. Menthol remains steady at the recent advance and slab camphor continues quiet. Cod liver oil is somewhat easier. Rhubarb is in slight demand at steady rates. Elm bark is in fair inquiry and likely to advance; mandrake root is dearer on the spot. Honey has been selling more freely of late at easier rates for new crop. Belgium chamomile growers are not anxious to name a price yet for new crop. Mercury is a complex but firm market; vermillion is 2d. higher. Business is practically suspended in the opium market, as the result of hostilities in Asia Minor and the anticipated fall of Smyrna.

Higher	Steadier	Easier	Lower
Acetone	Palm oil	Barium chloride	Acid oils
Arsenic	Phenacetin	Cinnamon-leaf oil (Cey.)	Canary seed (Mazagan, Larache)
Carbolic acid (crystals)	Sodium nitrite	Cod-liver oil	Cottonseed oil
Cassia oil		Honey	Crocosote (B.P.)
Cocoa butter (Amst. auct.)		Hydroquinone	Homatropine
Pi ch		Lemon oil	Hyoscyamine salts
Platinum		Orange oil (c.i.f.) (Sic.)	Linseed oil
Podophyllum root		Paraformaldehyde	Pilocarpine
Vermilion		Paraldehyde	Rape oil
		Piperazine	Shellac
		Sodium nitrate	Soda crystals
		Sulphonated	Spike oil
		Thymol	Tallow
			Wax, veget. (Jp. c.i.f.)

Cablegram

NEW YORK, September 6.—Business is dull. Opium has advanced to \$6.25 per lb. for druggists'. Mercury is also dearer at \$65 per flask. Bismuth salts are higher, subnitrate being \$2.30, subgallate \$2.25, and subcarbonate \$2.60. Iodine compounds have advanced—resublimed iodine is \$4.40, iodoform \$5.35, potassium iodide \$3.45, and sodium iodide \$3.90. Short buchu leaves are lower at 95c. per lb.

Crude Drugs, etc.

ALOES.—The exports from the Union of South Africa during May amounted to 51,628 lb. (£256) against 14,587 lb. (£119) in May, 1921. During the five months ended May 31, 1922, the exports were 112,234 lb. (£667) against 44,081 lb. (£469) for the corresponding period of 1921.

ANTIMONY.—Business is very slow, but prices hold up at the current low level. Foreign refined is on offer for shipment at about £23, and holders of warehouse lots want 5s. to 10s. per ton more. English refiners' terms are retained as before. Crude is called about £14 15s. to £15 c.i.f. for near shipment, the spot value being £14 15s.

BUCHU.—The exports from the Union of South Africa during May amounted to 13,851 lb. (£1,508) against 15,292 lb. (£2,806) for May, 1921. During the five months ended May, 1922, the exports were 54,953 lb. (£6,787) against 52,683 lb. (£9,292) for the corresponding period of 1921.

CADMUM.—The tone is very steady, despite keener competition on the part of importers. Prices range from 5s. 6d. to 6s. per lb.

CAMPHOR (CRUDE) is unaltered at 3s. 4d. per lb. on the spot, and September-October shipment is 2s. 11d. c.i.f.

CAMPHOR (REFINED).—Japanese 2½-lb. slabs continue quiet, with sellers at 3s. 6d. per lb. on the spot, and for September-October shipment 3s. 3d. c.i.f. is wanted.

CARDAMOMS.—The cheaper varieties brown and splits have been selling at from 1s. 3d. to 1s. 10d. per lb. Good pale qualities are firm but inactive.

CHAMOMILES.—Belgian growers are reluctant to name a price until they can more definitely ascertain what the total crops are likely to be. In the absence of sunny weather of late growers' estimates of the outturn have been considerably modified.

COCOA BUTTER.—At the Amsterdam auction van Houten's "A" quality sold at 83.04c., "B" at 80.12c., and Blooker at 81.04c., being an advance of 3 to 4c.

COD-LIVER OIL is slightly easier, finest new non-freezing Lofoten oil offering at from 95s. to 97s. per barrel c.i.f., spot values being from 100s. to 105s. per barrel.

ELM BARK is in fair demand and likely to advance, good light offering at 7½d. per lb. on the spot.

ERGOT.—The "Albano" from Oporto has brought 34 cases. New crop Spanish of good, bold quality just arrived can be had at 3s. 3d. per lb., and other grades at slightly less.

GUM ACACIA is steady, fair half-hard Kordofan sorts offering at from 65s. to 67s. 6d. per cwt., 70s. to 72s. 6d. for cleaned, and 120s. for fine white.

HEN YOLK continues dull, prime quality Chinese (1½ per cent. boric acid) offering at 100s. per cwt. on the spot, and at 90s. c.i.f. for September-November shipment. Dried yolk is 6¾d., sprayed whole egg 8¼d., and native dried whole 6½d. per lb. Prime Chinese hen albumen is 3s. 2d. spot, and August-October shipment is 2s. 11d. per lb. c.i.f.

The exportation of egg albumen and yolk from China is steadily declining, from 606,182 piculs in 1919 to 423,203 piculs in 1920, with a further drop to 392,322 piculs in 1921.

HONEY.—With shipments of new crop arriving on a free scale from various parts of the world, and willingness of importers to meet the market, very fair quantities have been sold, including practically white new crop Jamaica at from 55s. to 60s., good light amber 42s. 6d. to 45s., fair amber 37s. 6d. to 42s. 6d., and dark, part liquid at 27s. 6d. to 30s. per cwt.

LIQUORICE ROOT.—Levant natural has been sold at 25s. per cwt., and cut decorticated is quoted at 90s. to 95s.. and whole decorticated at 85s. c.i.f.

MAGNESIUM.—A better demand is reported, and the price asked by home makers for sticks, according to quantity, varies from 4s. 3d. to 4s. 9d. per lb. Imports have been light.

MENTHOL is steady, with small sales of Kobayashi-Suzuki at 30s. per lb. on the spot, and to arrive, September-October shipment is quoted at 24s. 3d. c.i.f.

MERCURY has remained in a very complex state. Business is rather difficult, and no trustworthy quotation is obtainable in the absence of any important transactions on the spot. There is but little new metal coming forward, this being, of course, chiefly the result of the starving tactics adopted by the Continental mines against the London market. Spanish and Italian producers have been reported in the Continental press to be doing a fair amount of business direct with consuming centres, but there is no reliable news obtainable on this point, while it is suggested by some dealers that the mines hold still ample stocks. Business is chiefly a matter of negotiation, and the full range of quotations one hears of is £12 10s. up to as much as £13 per bottle. America is reported to be making further importations, as her stocks have been steadily reduced during the last few months.

NUX VOMICA remains very quiet, with spot offering at 32s. per cwt. for good, and forward shipment is from 28s. to 30s. per cwt.

OPIUM.—In view of the anticipated fall of Smyrna into the hands of the Turks, the opium market is quite disorganized, and business is practically suspended pending developments.

PLATINUM.—Under a more active demand and not so much offering, the market has advanced, the price of

w metal now being fully £18 10s. per oz., while manufactured is held for about £21 10s. According to figures from Russia, the position is still very unsatisfactory, the output being limited. The reduced supply of platinum is now diverting more attention to the sub-stance—palladium—although the value of the latter is ill retained at £12 for raw metal.

PODOPHYLLUM ROOT.—Spot holders are asking 80s. per wt.—an advance of 5s.

RHUBARB is only in small demand, prices generally being steady. For finest Shensi from 5s. per lb. is quoted down to 4s. 6d. for cheaper qualities. Canton is slightly easier 4s. to 4s. 6d. Good rough-round, high-dried is offered at 2s. 2d., and flat high-dried at 3s. 4d. per lb.

SARSPARILLA.—Sales of fair red native Jamaica of cent arrival have been made at from 1s. 9d. to 1s. 10d. per lb. Genuine grey Jamaica can be had at 2s. 6d. andima-Jamaica at 2s. 3d. per lb. for good.

SENEGA.—Spot sales have been made at 4s. per lb., and new crop to arrive is quoted, subject to confirmation, at 5d. per lb. c.i.f.

SHELLAC continues quiet, and prices have declined a further 5s. per cwt. on the spot, with the usual standard T.N. orange quality offering at 305s. to 310s.; fine seconds range is 380s. to 390s., superfine 420s. to 470s., R.L.I. 10s., A.C. cakey 330s., and G.A.L. 305s. per cwt. For delivery, the sales include T.N. October at 255s. and December at 250s.

STARCH PRODUCTS.—No. 1 Japanese farina is dull at 4s. per cwt. on the spot, and for October-December shipment 21s. c.i.f. is quoted. Dutch is 19s. per cwt. c.i.f. or new crop for December shipment, and the spot value is 25s. 9d. English rice starch crystals are £44, and Continental £33 10s. per ton on the spot. American maize starch powder is 15s. per cwt.

VALERIAN.—Demand is quiet on the basis of £52 10s. per ton for Belgian in round lots. It is anticipated that there will be no Belgian crop this year.

VERMILION is 2d. per lb. dearer at 4s. 2d. per lb., and less for quantity.

WAX (BEES').—Good arrivals of Zanzibar have taken place recently; from £5 5s. to £5 10s. per cwt. is quoted, the latter for good even pale block.

WAX, CARNAUBA is steady, with fatty grey offering at 1s. and chalky at 82s. per cwt. on the spot.

WAX, VEGETABLE.—Good Japanese squares are quoted at 85s. per cwt. on the spot, and to arrive 75s. c.i.f. is wanted.

Seeds, Spices, etc.

CASSIA LIGNEA is steady, with selected offering at 45s. per cwt. and broken at 33s. on the spot.

CLOVES.—Zanzibar are steady, with spot sales of fair at from 1s. 3 $\frac{1}{2}$ d. to 1s. 4d. per lb. Further sales of new crop to arrive for October-December shipment have been made at 7 $\frac{1}{2}$ d. per lb. c.i.f.; November-January shipment is 7 $\frac{5}{8}$ d. c.i.f., and December-February 7 $\frac{1}{2}$ d. c.i.f. The week's statistics show a London stock of 1,960 bales against 4,708 in 1921 and 16,485 in 1920.

COCONUT (DESICCATED) is quiet and easy, with sales at 33s. to 32s. for fine and medium Ceylon on the spot. For afloat 31s. c.i.f. is quoted, and the value of September-October shipment is 32s. c.i.f.

GINGER is quiet. Cochin washed rough is 55s. to 57s. 6d., and wormy 45s. to 47s. 6d. Jamaica is 185s. for small and 205s. for bold. Japanese is 45s. and African in Liverpool 38s. per cwt.

PEPPER is quiet, with sales of fair black Singapore on the spot at 3 $\frac{3}{4}$ d. per lb. September-November and October-December shipments have been sold at 3 $\frac{5}{8}$ d. to 3 $\frac{1}{2}$ d. c.i.f. basis fair. Fair Tellicherry is 4 $\frac{3}{8}$ d. on the spot. Aleppy 4 $\frac{1}{4}$ d., and Lampung 4 $\frac{1}{4}$ d. on the spot. Tellicherry to arrive is 42s c.i.f., and Aleppy to arrive 41s. c.i.f. White Muntok is quiet at 6 $\frac{1}{2}$ d. on the spot; landed has been sold at 6 $\frac{5}{8}$ d., and September-November and October-December shipments at 6 $\frac{1}{2}$ d. c.i.f., d.w. White Singapore is 5 $\frac{7}{8}$ d. on the spot and 5 $\frac{3}{4}$ d. c.i.f., d.w., for October-December shipment.

SEEDS.—The following are current spot quotations: Spanish ANISE is now quoted at 80s. per cwt. Russian is 7ls., and Black Sea 66s. per cwt. CANARY SEED is inactive. Mazagan is quoted at 90s. per quarter, Larache at 70s., Spanish at 110s., and Tangier at 90s. to 95s. CARAWAY SEED.—Dutch is still scarce at 90s. to 95s. per cwt. Morocco is 75s. to 80s. for sound. CORIANDER SEED is firm. Sound is 35s. per cwt., and wormy is obtainable at from 15s. to 22s. as to quality. CUMIN SEED is very scarce. Maltese is 110s. per cwt. DILL SEED is 25s. per cwt. FENNEL SEED is 57s. 6d. per cwt. LINSEED.—Moroccan is quoted at 24s. 6d. Manchurian HEMP SEED is 14s. 3d. per cwt. MUSTARD SEED is 30s. to 35s. per cwt. for good English yellow. Sound FENUGREEK SEED is scarce at 20s. per cwt.

Essential Oils

SINCE last week business appears to have been quieter. A fair inquiry for cassia has resulted in higher spot quotations, and French lavender has been in better demand. Ceylon citronella has been less active, but prices are steady. Ceylon cinnamon leaf is easier. Sicilian oils are unchanged, and Spanish rosemary is cheaper owing to competition for orders. Spike is also easier.

ANISE (STAR).—“Red Ship” is selling in retail lots on the spot at 2s. 3d. per lb. The price to come forward is 2s. 2d. c.i.f.

BERGAMOT is unchanged for 37 to 39 l.a. on the spot, from 13s. 6d. to 14s. per lb., being about the value. The price to come forward is 13s. c.i.f. and upwards.

CASSIA continues to advance. Case lots of 80 to 85 c.a. have changed hands on the spot at 5s. 10 $\frac{1}{2}$ d. per lb., and some holders now quote 6s.

CEDARWOOD.—American is steady at 1s. 5d. per lb. in drums and 1s. 6d. to 1s. 7d. in cases.

CINNAMON.—Ceylon leaf is easier at 4 $\frac{1}{4}$ d. per oz. on the spot. The price for shipment is unchanged at 3 $\frac{1}{4}$ d. c.i.f.

CITRONELLA.—Demand is quieter again, with the spot quotation for Ceylon at 2s. 6d. The price to come forward is 2s. to 2s. 3d. c.i.f. according to position.

CLOVE.—English distillers are selling at 9s. to 9s. 6d. per lb. on the spot.

EUCALYPTUS is unchanged at 1s. 4 $\frac{1}{2}$ d. to 1s. 5d. per lb. on the spot for 70 to 75 per cent. cineol as to quantity.

GERANIUM.—Bourbon is quoted on the spot at from 22s. to 23s. per lb. Algerian appears to be scarce at 35s. to 40s., according to holder.

GINGERGRASS.—Spot quotations are unchanged at about 8s. 6d. per lb. for the “insoluble.”

JUNIPER BERRY is unchanged at 5s. 6d. to 6s. per lb. on the spot. Wood oil is selling at 2s. 3d.

LAVENDER.—A fair demand is reported for French oil on the spot. For 40 per cent. ester 15s. per lb. is quoted; 38 per cent., 14s.; 36 per cent., 13s.

LEMON is easier on the spot at 2s. 7d. to 2s. 9d. per lb., and 2s. 6d. to 2s. 8s. c.i.f. to come forward.

LEMONGRASS.—Cochin is unchanged at 2 $\frac{5}{8}$ d. per oz. on the spot and 2 $\frac{5}{16}$ d. c.i.f. for shipment.

MINT.—Japanese dementhrolised Kobayashi-Suzuki is steady at 6s. 9d. per lb. on the spot. For shipment 6s. 4 $\frac{1}{2}$ d. c.i.f. is quoted.

ORANGE.—Sicilian sweet is easier at 10s. 9d. to 11s. 6d. per lb. on the spot and 10s. to 10s. 6d. c.i.f. West Indian is unchanged at 10s. 6d.

OTTO OF ROSE.—For Bulgarian, “own distillation,” importers quote 31s. per oz.; other qualities are quoted down to 25s.

PALMAROSA.—Recent inquiries have confirmed the bareness of the spot market. The quotations for shipment have been too high to interest buyers.

PATCHOULI.—Singapore oil is unchanged at from 35s. to 37s. 6d. per lb., according to quality.

PEPPERMINT.—American natural tin oil is unchanged at 14s. 6d. to 15s. per lb., from second hands; up to 16s. being importers' prices. According to recent reports, the home demand is likely to absorb the new crop and there will be very little available for export this season.

ROSEMARY.—Importers of prime Spanish quote 1s. 10d. per lb. as the value in drums, but less than this is being accepted in some quarters owing to keen competition for business.

SANDALWOOD.—East Indian B.P. oil is selling on the spot at 25s. per lb. The Mysore Government official agents quote 27s. 6d. in 5-case lots.

SPEARMINT is unchanged at from 15s. to 15s. 6d. per lb. on the spot.

SPIKE.—Spanish is easier on the spot at 2s. 11d. to 3s. per lb. for drums.

Pharmaceutical Chemicals, etc.

THE position in this market shows very little change from that reported last week. Business continues very restricted, and there is rather a nervous tone in many articles owing to the unsettled state of affairs on the Continent. The market is also troubled with offers (which are based on cheap quotations from Germany). These are practically all ignored in our reports, as they do not in the least reflect the market. Such offers are generally of material of doubtful quality. The recognised spot dealers' prices in the majority of products are some 10 per cent. above such quotations, and are the real feeling of the market. Citric and tartaric acids continue dull and easy. Sulphonal, thymol, paraldehyde and resorcin are easier.

ACETANILIDE is a shade firmer this week, with most spot holders asking 1s. 4d. to 1s. 4½d. per lb.

AMIDOPYRIN remains unchanged at about 16s. per lb., but there is very little doing.

AMMONIUM BENZOATE holds at 4s. per lb. on a dull market.

ASPIRIN is steady and offers are firm at 2s. 10d. to 3s. per lb.

BARBITONE is still neglected, with offers weak in the region of 9s. per lb.

BENZALDEHYDE (.03) is maintained at 3s. per lb., with some few sales passing.

BENZOIC ACID is quoted level on the week at 1s. 6d. to 1s. 9d. per lb. on a quiet market.

BENZONAPHTHOL is offering with little success at about 4s. 9d. to 5s. per lb.

BETANAPHTHOL (RESUBLIMED).—Spot offers are maintained at 1s. 10d. per lb., but do not appear to be of much interest.

BROMIDES.—There is still a good quantity on hand, with the demand light, and values are not at all firm. Ammonium is offering from 10d. to 11d. per lb. as to quantity; potassium, crystals and granular from 8d. to 8½d., sodium from 8d. to 8½d. per lb., according to quantity. The market is still influenced by "give-away" offers from the Continent.

CALCIUM LACTATE has been in fair demand, and the general quotation has been between 2s. 2d. and 2s. 3d. per lb.

CHLORAL HYDRATE holds fairly steady, with some limited sales being made in the region of 4s. 6d. per lb. for duty-paid material.

CITRIC ACID, B.P., crystals continue in slow demand on spot, with supplies plentiful and some weak holders about. Most offers about 2s. 2d. per lb., less 5 per cent., with slightly less for quantities. Forward quotation is at 2s. per lb., c.i.f., less 5 per cent.

CODEINE is firm, English makers quoting the pure alkaloid crystals and precip. at 14s., phosphate at 10s. 6d., and hydrochloride and sulphate at 11s. 9d. per oz.

CREOSOTE, B.P., is now quoted on spot at the cheaper prices of 2s. 6d. to 2s. 9d. per lb.

CREOSOTE CARBONATE is seldom inquired for; quotations at about 10s. per lb., and 9s. in demijohns.

GUAIACOL CARBONATE holds at 8s. to 8s. 6d. per lb. on the spot, but the demand is poor.

HEXAMINE on the spot seems to hold fairly steady at about 3s. per lb. for material of good quality, and 2s. 10d. for cwt. lots.

HOMATROPINE SALTS are cheaper, English makers quoting the alkaloid crystals and hydrochloride at 2s. 6d. and hydrobromide at 2s. per 15 grains.

HYDROQUINONE is offering at 4s. per lb., but in some quarters this price might be shaded a point to effect sales.

HYOSCYAMINE SALTS are cheaper, English makers quoting the hydrobromide, hydrochloride and sulphate salt at 1s. 6d. per 15 grains; the alkaloid is unchanged at 2s.

METHYL SALICYLATE has recovered to its former level of 2s. 3d. to 2s. 6d. per lb., with carboys offering at 2s.

METHYL SULPHONAL remains neglected, with the quoted price at 18s. per lb.

MORPHINE.—Makers' price for hydrochloride powder remains on the basis of 8s. 6d. per oz., and crystals 8s. 9d.; sulphate is also 8s. 6d. and 8s. 9d. respectively, and the alkaloid is 10s. 8d. to 10s. 11d. per oz.

PARAFORMALDEHYDE is weak, and some offers are now below 3s. per lb.

PARALDEHYDE is easier at 1s. 5d. to 1s. 6d. per lb., with less for quantities.

PHENACETIN is now much steadier, and little is to be obtained below 5s. per lb.

PHENAZONE has slightly improved in demand, and some holders are now asking up to 7s. 3d. per lb.

PIPERAZINE is down to about 3s. 6d. per oz. for quantities, but very few inquiries have been made.

POTASSIUM PERMANGANATE.—B.P. crystals are easy as quoted at 9d. per lb.

POTASSIUM SULPHOGUAIACOLATE is nominal on a lifeless market.

RESORCIN is irregular, with spot prices varying from 6s. to 7s. per lb.

SALICYLIC ACID is steady for B.P. makes on spot at from 1s. 5d. to 1s. 6d. per lb., with less for quantities.

SALOL is steady at 1s. 10d. to 2s. per lb., but not in much demand.

SODIUM BENZOATE is steadier at 1s. 6d. per lb., and cwt. lots can be had at 1s. 3d.

SODIUM SALICYLATE has been in limited demand, with sales ranging from 1s. 10d. to 2s. for powder and 1s. 10d. to 2s. for crystals.

SULPHONAL is slightly easier, with offers at 14s. 6d. per lb.

TANNIC ACID.—Leviss is well maintained and in fair demand at 3s. 3d. per lb..

TARTARIC ACID is plentiful on spot with the demand still lacking. The few sales made have been in the region of 1s. 3d. to 1s. 4d. per lb., less 5 per cent.; forward offers, c.i.f., are at about the former rate.

THYMOL is easier at from 18s. 6d. to 22s. on spot; sales generally at cheaper rates.

Industrial Chemicals, etc.

London, September 6.

THERE is perhaps a little better volume of business on the market this week, but it is still far below normal. The home department continues fairly good, but export sales are as difficult as ever. Current values show little difference on the week.

ACETIC ACID continues strong, with a good demand for material as it arrives, and rates are well maintained. Eighty per cent. technical, £39 to £40; 80 per cent. pure, £45; 98 per cent. glacial, £67 10s. per ton, in casks and demijohns, ex wharf, London.

ACETONE continues very firm, and the market has been advancing daily; quotations are now at £88 to £90 per ton, in drums, but still higher rates are expected.

ALUM has been in fair demand and is selling at from £13 10s. to £14 10s. per ton for lump.

AMMONIA (ANHYDROUS) is offered on the spot at 1s. 9d. per lb. for 99.95 per cent. per cwt., but less would be taken.

AMMONIUM CHLORIDE is not in any great demand, spot dealers asking about 3ls. to 32s. per cwt.

AMMONIUM SULPHATE.—The Federation's prices for October to November, recently issued, hold good—export £17 10s. per ton, for which there is a good demand for the little available.

ARSENIC is exceedingly firm, prices having been further advanced, and now vary from about £44 10s. to £47 per

on for white Cornish, delivered London. The main factor is the reduced production and the limited quantities held by dealers, both of Cornish and foreign material. Consumers, however, are buying very sparingly and only for actual needs.

BARIUM CHLORIDE is a shade easier on the week, owing to cheaper offers from the Continent of about 20s. a ton less than those of two or three weeks ago.

COPPER-SULPHATE.—There is not much life in export business, and Lancashire makers continue to accept comparatively low terms at about £26 to £26 10s. per ton f.o.b. for casks, less 5 per cent., but the market is very irregular, while £27 might be considered a fair average quotation. Certain makers are still asking £27 10s. Prospects for the present are rather poor, and the home outlet seems very limited.

CREAM OF TARTAR is held fairly steady at 108s. to 110s. per cwt., less 2½ per cent., but the demand is small. Forward quotations stand at 100s. to 105s. net, c.i.f.

EPSOM SALTS are in occasional demand and quoted at about £6 5s. per ton, in bags, for commercial.

FORMALDEHYDE holds steady on spot at £70 per ton for 40 per cent. volume, but very little is being taken up at present.

GLAUBER'S SALT is steady and selling in small quantities at about £5 per ton for commercial quality.

LEAD-PRODUCTS.—At the recent reduction made for red lead and litharge, as well as white lead, the demand has been more active, consumers who hold but little stocks being more anxious to cover their needs, in view of the renewed sharp advance in the cost of pig lead. Home makers' terms are as follows for small lots:—Red lead and litharge, £39 5s. for home and export; white lead in oil, £51, and dry white lead, £41 per ton f.o.b. for export.

NICKEL SULPHATE.—Makers' prices are as reported last week.

OXALIC ACID is steady at 7½d. per lb. and selling fairly well.

POTASH CAUSTIC (88 to 92 per cent.) is slow of sale, and might possibly be secured a fraction under the quoted price of £29 per ton.

POTASSIUM BICHROMATE has been a little brighter and nothing much below 6½d. is offering.

POTASSIUM CHLORATE continues in buyers' favour, and some lots may be available below the quoted rate of 4½d. per lb.

POTASSIUM PRUSSIATE is a firm market, and spot supplies of yellow are not at all liberal—firm at 1s. 6d. per lb. Red is quoted at 4s. 6d. to 4s. 9d. per lb.

SAL AMMONIAC has been in poor request, and prices are easy, as quoted: Dog-tooth crystals, 52s.; medium-sided crystals, 47s. 6d.; fine white crystals, 32s.

SALTCAKE is well maintained at £4 5s. to £4 10s., with most makers reporting their output taken up for the time being.

SODA ASH (58 per cent. light alkali) continues quite neglected, so far as export business is concerned. London spot offers are at about £9 and Manchester at £8 5s. per ton. Makers quote to domestic consumers on contract at £7 17s. 6d. per ton, and their offers for export vary as to destination in the region of £9 to £9 10s.

SODA CRYSTALS from British makers are again at lower rates, with the new figure at £5 12s. 6d. per ton, in bags, carriage paid to destination.

SODIUM ACETATE continues quiet, with offers at about £23 10s. per ton.

SODIUM BICARBONATE, for home trade only, is selling well at £10 10s. per ton, in bags, carriage paid. Spot prices are round about £11 per ton.

SODIUM CHLORATE seems likely to ease from the quoted figure of 3½d. per lb.

SODIUM HYPOSULPHITE from British makers is quoted at—photographic, £18 10s., and commercial at about £12 f.o.r., for home trade only. Spot pea crystals are dull at £19 10s. per ton.

SODIUM NITRATE is easier on a very quiet market at about £13 5s. per ton.

SODIUM NITRITE is now steadier at level figures of £29 per ton.

SODIUM PRUSSIATE on the spot is firm at 11½d. per lb., with not much about, and a good demand continuing.

COAL TAR PRODUCTS, ETC.—Pitch continues to advance on a strong market. Carbolic Acid crystals and Cresylic Acid are now quoted firm at higher prices. Other products are level on the week. Pitch has been advancing day by day, and is now quoted in the region of 92s. 6d. per ton, and is still a firm market with a likelihood of still firmer rates. Pure METHYL ALCOHOL is steady on spot with not much demand, and is quoted at about £65 per ton ex wharf, London. CREOSOTE OIL is firm at about 6d. per gallon, and there is not very much about. CARBOLIC ACID crystals have advanced on a strong market to 6½d. per lb., and stand very firm. PYRIDINE remains quiet at level price on the week at 5s. 9d. per gallon. HEXAMETHYLENE is 2s. 10d. per gallon, and last week's cheaper price is maintained. NAPHTHALENE is steady, but flat at £17 per ton; crude, £4 to £7; crystals, £15; powder, £16; balls, £24; candles, £24; tablets, £24 per ton, packages free.

Fixed Oils, etc.

THE dull tone reported throughout August continues, and without exception business has been unusually poor. Linseed oil remains flat and easy, turpentine is in little demand, rape oil has at last cheapened, and palm oil seems a shade steadier. ACID OILS: The market has been unusually quiet, and an all-round reduction of about one shilling has been made; coconut 35s., palm-kernel 35s., groundnut 35s. CASTOR OIL: Prices remain unaltered with the market neglected; pharmaceutical 57s., first pressings 52s., second pressings 50s., at mills, Hull, in not less than one-ton lots. COCONUT OIL: After the recent reductions the market has held steady, but has been quiet; deodorised 47s., Cochin 44s., Ceylon 38s. COTTONSEED OIL: Soap-making is again much easier at 39s., and crude has slumped to 34s. Deodorised is maintained at about 48s., and common edible at 43s. The demand has been poor. GROUNDNUT OIL: The quiet tone reported last week continues, with values unchanged; deodorised 54s., crude Oriental 47s. PALM-KERNEL OIL: There has been no improvement in business, and prices quoted are unchanged; deodorised 46s., crude 38s. PALM OIL: This market has improved a little and seems somewhat steadier at the rates quoted; Lagos 32s., softs 30s. 6d., hards 31s. 3d. RAPE OIL: At the much cheaper rates now being quoted the market remains dull and easy; refined 47s., crude 44s. SOYA BEAN OIL: A quiet tone prevails, with values little altered on the week; deodorised 47s., crude about 39s. LINSEED OIL: Throughout the week a very quiet tone has prevailed in this market, with quoted rates showing up once more at lower rates. At the close there was an easier tendency noticeable. Raw, naked, on spot, 34s. per cwt.; September to December, 33s.; January to April, 32s. 3d.; Hull, on spot, 34s. 3d.; September to December, 33s.; January to April, 31s. 9d. TURPENTINE (AMERICAN): During the early part of the week there was a slight advance, but with the very poor demand continuing the price fell away and finishes the week about level. On spot, 94s.; September, 94s. 3d.; October to December, 94s. 3d.; January to April, 95s. 3d. Total visible stocks stand at 11,400 barrels, as compared with 15,860 same time last year; when the spot price was 62s. 9d.

LUBRICATING, MINERAL AND BURNING OILS, &c.—A dull tone continues throughout. Current prices show but very little change on the week, but many of them are decidedly weak, and would probably be shaded to effect sales. BENZOL is quite steady and in fair demand at the unchanged rate of 1s. 11d. per gallon, f.o.r. makers' works in buyers' packages. BURNING OIL: Crude No. 3 8½d., No. 2 8d. per gallon, barrels free. The market holds steady at these unchanged rates. FUEL OIL: 905/10 gravity is steady at £4 2s. 6d. per ton, ex tank, and 950 gravity at £3 5s. per ton. NAPHTHA is now very steady and a fairly good business is being done at about 1s. 10d. per gallon. SOLVENT NAPHTHAS are steady after the reduction of last week, but the demand is still poor; 90/160 1s. 11d. per gallon, and

heavy 90/190 1s. 10d. per gallon. **PARAFFIN WAX AND SCALE**: Wax is steady and fairly active at 2½d. to 3d. per lb., in bags, according to melting point. Scale is firm at 1½d. for white 122° to 124° F. on spot, and 1¾d. c.i.f.; yellow 1½d. c.i.f. for prompt shipment. **PETROLEUM OILS**: The old prices stand, with no sign of any change. American standard white 1s. 4½d., water white 1s. 5d. **PETROLEUM JELLIES**: Current quotations show no change on those of last week. Snow white, £64; white B.P., £61 10s.; yellow, from £24 to £45; red vet., £19; ruby red, £21; dark, stiff green, £18 10s., ex wharf, London, barrels free. **SPECIAL OILS** for Diesels and motors is unaltered at 10d. per gallon, barrels free. **WHITE OILS**: Business has been slow, with quoted prices level on the week. Special No. 1, £43; No. 1, £39 10s.; No. 1A half-white, £35, drums free; No. 2 half-white, £28, barrels free, all ex wharf, London. **LUBRICATING OILS**: The spot market, so far as quoted prices are concerned, is unchanged, but business is not at all brisk, and an unsteady tone is noticeable in some quarters. Shipping quotations remain level. Pales, £12 10s. to £24 10s.; reds, £15 to £30; dark cylinders, £15 to £35; filtered cylinders, £20 to £37; blacks, £8 to £19, ex wharf, London, less 2½ per cent. **SOLUBLE OIL**, which has been sluggish for some time, is now quoted at the cheaper price of £21 per ton.

ANIMAL AND FISH OILS, TALLows, &c.—Tallows continue dull and have weakened further. Other products are unchanged, with business generally very slack. **BONE GREASE**: Quoted rates show a slight reduction and are still weak; pale water 33s., brown 30s., benzine 30s. **NEATS FOOT OIL** is offering on spot at about 5s. 4d. per gallon, according to acidity. **PALE HORSE OIL** is slightly easier at about 36s. per cwt., delivered. **ENGLISH LARD OIL** is steady but inactive at 62s. to 74s. per cwt. **FISH OILS**: Business continues to be extremely light, but quoted prices are being maintained: Filtered pale whales, 37s. to 42s.; filtered brown, 30s.; filtered dark brown, 27s.; thickened, 39s.; brown whale cake, 28s.; brown stearin, 21s.; refined sperm oil, 39s.; best refined southern sperm oil, 40s.; seal oil, 24s. to 42s.; white seal oil, 42s.; English coast cod, 30s.; hardened whale oil, 39s. to 42s., in barrels, ex wharf, London. Cheaper quotations, ex provincial ports. **TALLows**: Business for all grades and kinds is slack, and current prices are difficult to obtain. Australian fine mutton, 40s.; fine beef, 41s.; good mixed, 38s.; inferior, 31s.

German Chemical and Drug Markets

(Continued from last week's C. & D.)

HELIOTROPINE has been neglected at m. 1,700 for home trade.

HEXAMÉTHYLENTETRAMINE has been frequently in demand and now fetches m. 550; for export m. 625.

HYDRASTIS.—The price is \$4 per lb.

IPECACUANHA.—Rio is offered in consequence of the fluctuations of the exchange at 18s. per kilo.

Lycopodium.—The demand exceeds the supply and the price is advancing; offered at m. 1,050 for genuine.

MENTHOL.—The advance in price to 24s. per lb. for orders of a case or more has paralysed wholesale trading.

MILK SUGAR.—The repeated increases in the price of milk have led to an advance in the price of milk sugar, which continues to be in brisk demand, and in view of the decreased supplies of milk a further advance in price is inevitable during the coming autumn and winter. Offered for the present at m. 200; for export m. 250.

OXALIC ACID is in regular demand at m. 75; for export m. 180.

PHENACETIN has been chiefly purchased by foreign buyers and now fetches m. 1,100; for export m. 1,700.

PHENOLPHTHALEIN has been in brisk demand at m. 800; for export m. 950.

POTASSIUM BROMIDE has been in demand at m. 100; for export m. 130.

POTASSIUM CHLORATE.—Repeated increases in price have resulted in its now fetching m. 60; for export m. 80.

POTASSIUM PERMANGANATE is m. 160; has been in brisk demand for export at m. 210.

POTASSIUM SULPHOGUAICOLATE has been in brisk demand at m. 1,150; for export m. 1,250.

PYRAMIDON.—Stocks are getting low at m. 3,600; for export m. 4,200.

SODIUM BROMIDE has advanced to m. 120; for export m. 140.

SODIUM SALICYLATE.—Stocks are very low; quoted at m. 375; for export m. 475.

SENEGA.—The price is \$0.80 per lb.

SALOL.—Offered for home market only at m. 360.

SANTONIN.—At m. 200,000 per kilo. is now one of our most expensive lines, but in view of its scarcity this price is being paid.

SALICYLIC ACID.—Manufacturers have advanced the price offered cheaply at m. 340, for export m. 450.

SODIUM BENZOATE.—Stocks have been cleared; quoted at m. 300; for export m. 340.

[It will be noticed that some articles are quoted for the home market—viz., Germany, in shillings or in dollars.]

Italian Drug and Chemical Markets

Genoa, August 29.

The Italian lira declined considerably in value during August, bringing the English pound sterling from lire 97.50 to lire 104 and above, and the U.S. dollar from lire 21.50 to lire 23. A similar state of affairs assisted the sale of certain war reparation products and the importation of German chemicals and pharmaceuticals. The Italian works profited by the situation, and placed orders for large quantities of soda crystals, liquid silicate of soda, caustic soda solutions, etc. On the Genoa market offers were wanting for acetic, boric, hydrochloric, carbolic, formic and lactic acids, bichromate of soda, English carbonate of soda, hypochlorite of lime, chloride of lime, hyposulphite of soda, permanganate of potash, yellow prussiate of potash, sulphide of antimony, etc. Some of the approximate prices per kilo (except where otherwise stated) were as follows:—

	Lire,	Lire,	
Acetysalicylic acid	45 to 55	Morphine hydrochl.	2,000 to 2,500
Amidopyrin	240 to 260	Opium 10%, Smyrna	120 to 140
Ammonium bromide	12 to 14	Phenacetin	120 to 150
Antipyrine	130 to 140	Potass. brom. cryst.	9 to 10
Benzonaphtho-	103 to 120	Potass. iodide	160 to 175
Boric acid, crystals		Potass. sulphoguaic.	120 to 140
and powder	790 to 800	Quinine hydrochlor.	600 to 650
Boric acid, flakes	800 to 820	Quinine sulphate	
Caffeine, pure	180 to 200	and bisulphate	400 to 450
Calcium glycero-		Resorcin	65 to 75
phosph., ..	50 to 60	Salicylic acid	12 to 14
Camphor, Japanese	40 to 55.50	Salol	50 to 60
Castor oil, medicinal	7 to 8	Sodium benzoate	14 to 16
Chamomiles	8 to 10	Sodium bicarb.(ton)	165 to 170
Chloral hydrate	40 to 45	Sodium bromide	11 to 12
Chloroforin	16 to 18	Sodium glycerophosphate	25 to 30
Citric acid, crystals	19 to 20	Sodium methylar-	
Cocaine hydrochlor.	2,200 to 2,500	senate	250 to 260
Codeine, pure	3,000 to 3,500	Sodium salicylate	18 to 20
Creosote, wood	40 to 50	Strychnine nitrate	1,100 to 1,200
Guaiacol carb.	160 to 180	Tannic acid, leviss.	40 to 50.50
Guaiacol crystals	130 to 150	Tartaric acid, crys.	12.60 to 13
Guaiacol pure	90 to 100	Tartaric acid, p.wd.	12.70 to 13.10
Hexamine	90 to 100	Terpene hydrate	20 to 25
Hydroquinone	40 to 50	Theobromine, pure	200 to 220
Iodine, resublimed	190 to 260	Thymol	300 to 350
Linsed meal, pure	1.90 to 2.60	Vanillin	400 to 450
Magnesia, calcined	10 to 12	Vaseline	6 to 7
Menthol	280 to 300	Zinc oxide	5 to 6
Methyl salicylate	35 to 40		
Milk-sugar crystals	17 to 18		

The British Chemical Trade Association

THE following is an abstract from Bulletin No. 44, which has just been issued:—

"MEMBERS are advised that the Central Importing Agency which has acted as Government agents for the disposal of reparation dyes received from Germany under the Peace Treaty was closed down on August 31, and that the British Dyestuffs Corporation, Ltd., have been appointed. Applications for supplies of reparation dyes should now be addressed to the Corporation's Manchester address. No official notice has been issued of this change, which appears to have been very sudden, and on inquiry in official circles no reason could be obtained for the necessity of the action taken. It is understood that the arrangements concluded with the new agents are similar to those in force at the time the C.I.A. existed, but there is reason to believe that the British Dyestuffs Corporation will not be barred from purchasing for their own account from the reparation stocks and then re-selling again at a profit. With the C.I.A. purchase and re-sale for their own account was prohibited. It is early yet to give detailed information on this important matter, and the Government Department concerned are not disposed to make the facts clear. It is remarkable that this important change should have been made with absolutely no notice to the trade having been given by the Government, and traders have been left to find out for themselves. More will be heard of the matter when Parliament meets."

Commercial and Produce Notes

Ceylon Cinnamon

THE "Ceylon Observer" announces that the cinnamon merchants of Colombo have decided to inaugurate a auction sale of cinnamon. On and after August 1 all cinnamon brought to Colombo for sale will be auctioned at the under-office in Dam Street, Pettah. It is hoped that the one of the market will be improved to the advantage of the producers. The object of the auction is the elimination of the middleman, who now makes a handsome living at the pence of both the buyer and seller.

The U.S. Tariff Bill

MONG the articles removed from the free list in the American Tariff Bill (*C. & D.*, August 26, p. 325) are:— ammonium nitrate, ambergris, bismuth, cadmium, casein, asturum, cerium, civet, gum acacia, musk, needle and liquid stimony, saffron, safflower. To the essential oil paragraph bis de rose and cananga oils were added. The rate of duty on perfumery, tooth paste and other toilet preparations containing alcohol was increased from 40 cents per lb. and 75 per cent. ad valorem to 40 cents and 75 per cent. If containing alcohol such articles had the rate increased to 75 per cent.

Java Cinchona Dividends

HE Kina Maatschaapij "Tjikembang" is paying 54 per cent. on the preferred and 41 per cent. on the ordinary shares. At the annual general meeting of shareholders of the Kina Maatschappij "Kertamanah" it was decided to pay a final dividend for the book year of 1921 of 55 per cent., or 275 florins, on each 500 florin share. During the last year the Kina Kultuur Maatschappij "Tjilongkrang" realised 295,973 florins from the sale of bark in Holland and in Bandoeng; in addition, an amount of 152,218 kilos. of bark still remains unsold, valued at 76,109 florins. The total profit amounted to 251,270 florins, of which 115,270 fl. ave been placed to the reserve fund, and 120,000 fl., representing 20 per cent. of the invested capital, was paid out to the shareholders.

Java Government Cinchona

THE Government plantations at Tjinjiroeann, Bandoeng, contained at the end of the year 1920 about 9,844,000 cinchona trees, in addition to 2,405,000 cinchona plants in different stages of development in the nurseries. The sale of seeds and plants yielded a total of 63,959 florins. The amount of bark collected amounted to 1,131,435 kilos., compared with a yield of 1,046,120 kilos. in 1919, and had an average content corresponding to 5.3 per cent. of quinino sulphate. The following figures show the amount of bark collected during the past five years:—

	Bark (Kilos.)	Average quinine content.
1920	1,131,435	5.30 per cent.
1919	1,046,120	5.18 " "
1918	1,026,677	5.10 " "
1917	880,100	5.71 " "
1916	901,361	5.70 " "

Cleaner Crude Drugs Wanted

A CAMPAIGN to eliminate excessive dirt from crude drugs has been started by the Bureau of Chemistry, United States Department of Agriculture, which is charged with the enforcement of the Federal Food and Drugs Act. An investigation by the bureau shows that the shipping of dirty domestic crude drugs is a rather widespread practice and is due largely to carelessness in gathering. Excessive dirt constitutes adulteration in crude drugs shipped within the jurisdiction of the Federal Food and Drugs Act. In some instances crude drugs were found to contain 20 per cent. or more of dirt. This practice results not only in an economic loss to the purchaser who usually buys the crude drugs by weight, but obviously lessens the medicinal value of the drug. This condition may be dangerous to the user, restrict the sale of the drug, and consequently lower its market value. Care on the part of the gatherers would prevent this great excess of dirt. The dealer who ships the crude drugs into interstate commerce is responsible under the Federal Food and Drugs Act and should take steps, say the officials, to correct this condition in order to free himself from liability to prosecution. Ordinary care such as is exercised in marketing garden products is usually sufficient. For instance, the washing of the fibrous roots such as hydrastis root, before drying would materially improve existing conditions, in the opinion of the bureau. Inspectors have been directed to give

special attention to shipments of crude drugs. Appropriate action under the Federal Food and Drugs Act will be taken, it is said, in all cases found to be in violation of the law.

French Turpentine Exports

DURING the first eight months of 1921 France exported 6,931,900 kilos. of oil of turpentine, representing a total value of 20,588,000fr. The following table shows the countries to which oil of turpentine was exported during this period:

	Kilos.	Frances.
Great Britain	2,704,800	8,035,000
Belgium	771,200	2,290,000
Switzerland	738,400	2,193,000
Italy	678,500	2,015,000
Algiers	131,400	390,000
Sweden	209,500	622,000
Norway	59,800	178,000
Holland	835,800	2,492,000
Germany	330,000	980,000
Denmark	242,500	720,000
French Congo	90,900	270,000
Other countries	139,100	415,000
Total	6,931,900	20,588,000

Narcotic Drugs in China

IN a report on the foreign trade of China during 1921, issued by the Chinese Maritime Customs, it is stated that at present opium is officially imported only into the Leased Territories of Dairen and Kiaochow. The total importation during 1921 was 332.70 piculs, compared with 136.20 and 156 piculs in 1920 and 1919 respectively. It is known, however, that large quantities of opium are being smuggled into the country, assisted by the extreme ease with which the drug lends itself to concealment. The quantities of opium, morphine, cocaine, etc., seized by the Customs are increasing year by year, and have now assumed formidable proportions. The subjoined table gives the quantities confiscated during the last five years. It may be mentioned that, after presenting some small quantities to hospitals, etc., for purely medicinal purposes, the whole of the stuff is burned by the Customs authorities, millions of dollars worth thus going up in smoke every year.

Year	Opium lb.	Morphine lb.	Cocaine lb.
1917*	20,468	219	32
1918	26,676	147	15
1919	43,375	213	164
1920	95,627	742	264
1921	150,104	647	764
Total	342,250	1,968	1,239

* April to December.

Canadian Honey

DURING recent years a noticeable feature of Western Canadian agriculture has been the production of honey as a commercial venture. Whilst Eastern Canada has had a large annual production of honey for a number of years, a general disbelief prevailed that honey could not be produced successfully in British Columbia, and only comparatively recently has it been proved conclusively that bees thrive as well in the West as in the East. The honey crop of British Columbia in 1921 amounted to 309,074 lb. The Okanagan Valley, famous the world over for its fruit, has taken enthusiastically to apiculture, to which the valley with its thousands of fruit trees is so admirably adapted. In Manitoba the progress made in bee-keeping has been little less than phenomenal. Its crop last year amounted to 903,000 lb., derived from 14,721 colonies of bees, and there are now well over one thousand members of the Manitoba Bee-Keepers' Association. Production figures for the Province of Saskatchewan are not available. The output is substantially less than that of the sister Province, but it possesses the same opportunities and similar advantages. Experts are now satisfied that the West can produce as good honey as the East, and the prairies are coming in an ever-increasing extent to be less dependent on Ontario and the Eastern Provinces, as well as the United States. There is ample room, however, for a substantial development of the industry in Western Canada. Canadian trade figures show that in the fiscal year 1921, whilst Canada exported to the United Kingdom, United States, France and other countries honey to the extent of only 36,929 lb., valued at \$9,195, she imported from the United States, Australia, Jamaica, Hawaii and other countries the same product to the extent of 683,149 lb., valued at \$128,751.



Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

Payment for Developing and Printing

SIR.—Your correspondent "Photokion" (*C. & D.*, September 2, p. 355) may be interested to learn that at one pharmacy to which I go periodically as *locum*, 1s. deposit is charged upon each film left for developing and printing. This is the result of having in the past had so many films uncalled for. (A big business is done; one day last month sixty orders were received.) When the order is for developing only, the correct amount is asked for. It is surprising that, even after paying a deposit, a few fail to call for their work.—Yours faithfully,

SCOPARIUS (4/9).

SIR.—It may interest your correspondent "Photokion" (*C. & D.*, September 2, p. 355) if I enumerate a few of the uncalled-for specimens of amateur photography. Miss —— left five No. 2 Brownie films for treatment many months ago. Mr. ——, whose address we have, has omitted to call for 5s. 6d. worth of prints. We sent a messenger several times to ask for cash, but were always put off. Those are two examples. The worst type of offender is the out-for-a-good-time damsel, who has chummed up with a youthful male visitor of the same type. The latter goes home (possibly imagining he has spent sufficient already) without bothering about the snapshots he has taken of the temporary best-beloved; and the maiden swears to herself that she is not going to waste her good money over photographs. We made a mistake once with a matter of this kind. She was told occasionally, whilst making purchases at the pharmacy, that the films she had left were developed and printed. One day, at long last—there must have been a touch of storm in the atmosphere of the pharmacy!—she was handed the finished products, with the suggestion that she should pay at her own convenience. And we never saw her any more!—Yours faithfully,

SCOTS (6/9).

A Currency Query

SIR.—In reply to the question raised by "Continental" (*C. & D.*, September 2, p. 355), I encountered no such difficulty as that mentioned by him—that is, in Belgium, Germany and Austria (I did not visit France). I am led to believe that certain localities in France do issue their own paper money, which is not generally accepted. In any case, it is well to remember that English money will carry one a long way. I take the opportunity of endorsing the view of "Xraysr II." (*C. & D.*, August 26, p. 313) that it is preferable to do a little less travelling than we did, thereby allowing for a longer stay here and there.—Yours faithfully,

G. B. D. (4/9).

SIR.—All notes for five francs (2s.) and over are valid throughout France. This, of course, "Continental" understands. The 2fr., 1fr. and 50c. notes are local; but Parisian notes are accepted in any town. Shopkeepers, hotel people, and the public generally in Paris refuse, however, to accept provincial notes; but if one has any of these, one can change them at the Banque de France. The new metal tokens (2fr., 1fr., 50c.) are valid throughout France, but owing to the dilatory manner in which they have been issued they are, I understand, rarely seen outside Paris, where they are now quite plentiful; 50fr. worth is given to anyone calling at the Bank of France in exchange for notes. I go there regularly, and have practically ceased to use small notes at all. But I fancy "Continental" contemplates a provincial pilgrimage only. I would therefore point out that it would be more correct to say the small provincial notes are not necessarily accepted at the next stopping place. If the stopping place is not far away, there will be no trouble. The truth is, people do not care about accepting notes they

do not know; and there are some hundreds of these issues, as every town of any size issues its own. That these remain local is not, I fancy, altogether an evil. Personally, I have found little trouble. It should be born in mind that the highest local note (2fr.) only represents about 8d. in English money. Any well-known note is accepted in a neighbouring town. For instance, at Montpellier, the Beziers, Cete and Marseille notes were all current and common. (When leaving, one always uses local change to pay for one's ticket or tip waiters, porters, etc.) The rest, in the case in point, went for lunch at Tarascon. Here I received Lyons notes (the waiter will always oblige, if he can); and stamps or cigarettes can always be purchased at the last moment if one has been careless enough to accumulate a few fourpenny or two-penny notes. I insist on the low value of local notes, as this fact minimises any possible loss. I do not think I have lost 2s. in two years. I hold no brief for French money, but, with a little forethought, questions of currency need be no serious drawback to a tour.—Yours faithfully,

YOUR PARIS CORRESPONDENT.

Indoor Assistants of Fifty Years Ago

SIR.—The "Retrospect of Fifty Years Ago," in your issue of August 26 (p. 328), was of more than usual interest. It refers to what was said to be "a vast improvement" as regards hours and salaries during the previous ten years, and gives a clear hint that indoor assistants, being free of household expenses, could not expect much in the way of wages. In those days all in authority were preaching the same doctrine—i.e., assistants must rest content in the sphere of life in which it pleased Providence to put them. I always look on the period as one of transition. We were beginning to dabble more in patents. The best pharmacies were mainly devoted to dispensing and light retail—very light indeed in most cases. The few years after the Franco-German War were, I believe, very lean years. Many drug businesses, certainly, were lucky if they took £10 a week. As to the indoor system, my experience is that, in the main, the berths were "not so bad." But the indoor situation, even if you were able to term yourself "a Christian young man," was often not much better than semi-voluntary servitude. As to hours, I do not imagine there can have been much improvement by 1872. In my first berth, rather earlier than that year, the hours were 8 a.m. to 8 p.m., less one hour a day for recreation and any private business; every other evening on duty, and every third Sunday. My first obstacle with my "old man" was over what I might do when I was off duty. I went for a walk after closing, and on my return got reprimanded for going out "without permission." I asked him if he supposed I was going to stay in—not being on duty—if I wanted to go somewhere. "Yes," said he, "I do not allow my juniors out without leave." "Very well, then," I replied, "I shall give you a month's notice." Said he, "You might bring burglars in," to which I answered to the effect that pigs might fly. This little breeze blew over, and I always went out after that when I wanted to. The senior assistant amused me by his intense indignation at the tone of the prayers we had to endure every morning—with the coffee getting colder every minute—the S.A. had a decided objection to being prayed for. Our next senior man was almost as big a trial in the opposite direction. He got converted soon after joining us, lectured us all on our shortcomings, and was a pretty considerable nuisance. I remember one year, when the "boss" was on holiday, this man took it on himself to conduct the prayers—extempore and lengthy. There would be a gentle tap on the door, when I would get up quietly and go out to serve a customer—more or less! I had in all four experiences indoors, and I can imagine that for the lady of the house the system had its drawbacks. (I like to think the morals of our young men are better than they used to be, being the father of sons myself!) Freedom from household expenses did not always imply that we got an adequate equivalent. At one big London shop the housekeeper was allowed 15s. a head for catering, and we all suffered from the arrangement. Assistants grumbled about their food in many cases, no doubt, but I heard

remarks about the pay. This, perhaps, was because we were in the main birds of passage, getting a little respite before going back home to the old business. The fact must have been fairly obvious that the pay was, the greater part, as much as could be afforded. Ten years later than 1872 I was managing assistant to a man very well known, and I got—outdoors, of course—as much of the business as he did himself. It was a sum that could not be considered to-day. As a fact, it is only quite recent years that payment for services rendered has approached the adequate or the reasonable. And for this I think assistants owe a great deal to THE CHEMIST AND DRUGGIST, whose columns have been open freely to them and their views. But for that, wages would have stuck tighter and longer to the old inadequate rates. With respect to hours, I sometimes wonder if we are not overrating it in making them so few in many pharmacies. In my young days, the long hours were made unbearable, because one was expected to be at work all the time. With a governor's desk erected like a pulpit at the back of the shop, it was not easy to escape observation. Had we been allowed to read and study, the long hours would have passed not unpleasantly.—Yours, truly,

"NARETEV" (4/9).

Window-displays

SIR,—Without wishing to prolong unduly the discussion on window-displays, I must say that I am glad to receive the support of "Xrayser II." (C. & D., September p. 342). From the manufacturer's point of view, the single display is a splendid stunt; it means at least a night's show with the whole window as an advertisement, to the exclusion of other lines, and at the trifling cost of a small bonus, generally provided in goods. On a recent holiday tour I have noted a good many pharmacists' windows, and a large percentage of them were devoted to proprietary articles in single displays; it struck me that, to the average passer by (as I was for the moment), there was, in many instances, nothing about the window to impress the public with the fact that the owner was carrying on a chemist's business at all. This sort of display is, to my mind, almost worse than none. In our window dressing we can, if we choose, differentiate a pharmacy from all other shops in the same street,—yours faithfully,

WINDOW SHOW (4/9).

Dispensing Difficulties and Notes

"A Hard Sediment"

SIR,—I shall be glad of your opinion as to the cause of the following prescription forming a hard sediment after being dispensed a day or two:—

Mag. oxid.	...	...	gr. viiss.
Bis. carb.	...	...	gr. v.
Sodii bromid.	...	...	gr. v.
Tr. bellad.	...	...	gr. iv.
Sp. chlor.	...	...	mij.
Aq. m. pip.	...	ad	3j.
Ft. mist.			

The sediment will not shake up.—Yours truly,

NEMO (28/7).

[We have compounded this mixture in various ways—g., by rubbing the dry ingredients in a mortar with the mixed liquids, and by shooting the powders into a bottle and shaking up. The only difference in the result of these two methods is that in the mixture for which the mortar was used the deposit is less bulky than that of the mixture for which the powders were shot into the bottle. In both cases the sediment is light and free, and shakes up and diffuses beautifully—this after ten days. The hard sediment which you describe suggests bismuth bromide, but the conditions should be unfavourable for its formation. Try the mixture with a different carbonate of bismuth.]

A Discoloration

SIR.—Could you please inform me of the correct way in which to dispense the following, as after standing

for twenty-four hours the magnesium oxide adheres to the side of the bottle, and also discolours the tr. card. co.:—

Sodii bicarb.	...	...	3ij.
Sodii bromidi	...	...	3j.
Magnes. oxid.	...	...	3j.
Sp. cajuputi	...	...	3j.
Tr. nucis vomicae	...	...	3j.
Tr. card. co.	...	...	3iss.
Sp. chlorof.	...	...	3j.
Aq. ad	...	...	3vi.
Ft. mist.			

Yours truly,
CHEMICUS (8/8).

[The best way to compound this mixture is to place the three dry constituents in a mortar and rub down smooth with a little water, gradually adding more water until about five fluid ounces has been used; pour into a measure, add the spirituous ingredients, make up to the required measure with more water, and transfer to a bottle. After standing for a day or two there is a very slight deposit of solid matter adherent to the inside of the bottle. This is unavoidable, and of no account. If hard tap water be used the adherent deposit is increased: distilled water should be used. The colouring of compound tincture of cardamoms is discharged by alkali. The sodium bicarbonate and magnesium oxide together are accountable for the discolouration here. "The Art of Dispensing" contains some useful notes relative to the action of alkali on the colouring matter of compound tincture of cardamoms.]

A Salol and Oil Difficulty

SIR,—Perhaps the prescription which I send herewith will be of interest to your readers:—

Ol. ricini	...	...	m.v.
Salol	...	...	gr. x.
P. tragacanth.	...	...	q.s.
Glycerini	...	...	m.x.
Aque	...	ad	3j.
Ft. mist.			

Yours faithfully,
KIN ATOM (22/8).

[This is an old friend in a somewhat unusual form. Generally there is more oil prescribed than there is in this instance. For such a combination Martindale recommends the salol to be dissolved in the oil and the oily solution to be rubbed down in a hot mortar with the tragacanth, employing the water warm. It is not a case of incompatibility, but the solution of salol in oil is more difficult to emulsify than oil itself. In the present instance the quantity of oil is so small that it only partially dissolves the salol, and the combination is too difficult for the tragacanth to break up. A more intense emulsifier is required, tragacanth being only an excellent suspending agent. A simple way in which to compound the draught is to enlist the service of a quillaja product—the best being pure saponin, which is free from colour. Place the castor oil, salol, and glycerin in a mortar with half a grain of saponin; triturate well together, then add gradually with continuous stirring half a fluid ounce of mucilage of tragacanth, and, finally, the requisite quantity of water. This method produces a fine white non-separating emulsion.]

Legal Queries

A. G. T. (1/9) wishes to know if, when small quantities of S.V.R.—say, $\frac{1}{2}$ gallon—are purchased from a drug house, and no rebate is claimed, it is necessary to keep a register of the manner in which it is used. [It is not necessary; but if at any time a claim for rebate of the duty should be made on the spirits, failure to keep the account would lead to the claim being rejected.]

J. C. (1/9) was formerly employed as manager of a business. Under his service agreement, which is stamped, he was to receive, in addition to his salary, a commission upon the profits resulting from certain of

his work. The accounts in respect of that work were in many cases paid monthly, by cheque, direct to his employer. No commission has ever been paid to "J. C." in respect of those transactions. "J. C." has now bought the business; is he entitled to sue his late employer for the commission due to him, or to deduct the amount from the purchase price of the business? [Without seeing the agreement we are unable to express an opinion as to "J. C.'s" claim; but we advise him to consult a solicitor before taking legal proceedings. Even if commission is due to him, he is not legally entitled to deduct the amount from the sum which he owes his late employer as purchase money.]

Rhei (4/9), who is assessed for income-tax under Schedule E., has a difference of opinion with his local inspector of taxes as to what, if anything, is due from him for income-tax; and he sends the following particulars of his income for 1921-22, and asks how he stands:—Earned income, £300; unearned income, from which income-tax at 6s. in the £ is deducted at the source, £41 15s. He has a wife and two children on whom allowance is claimable, and he pays an annual premium of £12 12s. on his life insurance policy and £20 a year interest on a mortgage loan. [Assessable income, £341 15s., from which the following allowances have to be deducted:—One-tenth of earned income, or £30, personal allowance for self and wife, £225; allowance for two children, £63, in all £318, leaving a taxable income of £23 15s., on which the income-tax at 3s. in the £ is £3 11s. 3d., from which has to be deducted 3s. in the £ on the insurance premium of £12 12s., that is, £1 17s. 9d., leaving the net tax due on income £1 13s. 6d. To this has to be added tax at 6s. in the £ on the £20 mortgage interest (which "Rhei" should deduct on paying over the interest to the mortgagee), making the total tax due £7 13s. 6d.; and as he has already paid £12 9s. tax on his earned income, he is entitled to claim repayment of £4 15s. 6d.]

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

J. T. & S. (23/8).—BOOKS ON DENTAL ANATOMY.—Dewey, M., "Dental Anatomy" (Kimpton, 10s. 6d.); Hopewell-Smith, A., "An Introduction to Dental Anatomy and Physiology" (Churchill, 18s.); Tomes, C. S., "A Manual of Dental Anatomy . . ." (Churchill, 15s.).

B. & H. (22/8).—(1) HYPO ELIMINATORS.—The following are two chemical methods:

I.

Amm. persulphate	25 gr.	Potas. percarbon-	
Sodium carbonate	50 gr.	ate	... 25 gr.
Water	... 10 oz.	Water	... 10 oz.

The plate, after fixing and rinsing, is soaked in either of the above solutions for five minutes, using several fresh portions of the solution selected. Then rinse with water and dry.

(2) HUNGARY WATER.—Sp. rosmarini, B.P., is sometimes given for this, but there are more elaborate recipes. (See "Pharmaceutical Formulas," p. 206.)

A. C. (21/8).—INFANTS' ELIXIR.—The liquid you send is apparently a simple alkaline carminative containing no sedative. The following formula will probably meet your requirements:—

Sod. bicarb.	...	...	gr. xxxii.
Tinct. rhci	...	...	mlxviii.
Spt. ammon. aromat.	...	...	mlxxxii.
Tinct. card. co.	...	...	mlxiv.
Sacch. ust.	...	...	q.s
Aq.	...	ad	5ij

The title "elixir" suggests rather a sweeter preparation than your specimen, which might be improved in this direction by the addition of glycerin.

M. D. G. (21/8).—BLACK BEER (NON-INTOXICATING).—There is an aerated variety which is prepared by adding a certain quantity of a concentrated liquor to each bottle and filling up with aerated water, in the same way as lemonade is made. The black-beer liquor is made as follows:

Dissolve $\frac{1}{2}$ lb. of liquorice juice in a gallon of boiling water in which 4 oz. of quassia chips and $\frac{1}{2}$ lb. of horehound sprigs have previously been infused. Strain, press, filter, and clarify with isinglass, then add 4 oz. of citric acid, 1 oz. of capsicin, and burnt sugar to colour. Now add sufficient brown sugar to convert the liquid into a thick syrup, which must be preserved in closely-corked jars.

B. & B. (25/8).—ESSENCE OF PEPPERMINT.—The preparation usually sold by chemists for essence of peppermint is a solution of one part of oil of peppermint in nine parts of 90 per cent. alcohol. The following is a formula for a soluble peppermint essence:

Terpeneless peppermint oil	3ij.
Spirit	... 5ix.
Wafer	... 3xviis.
Citric acid	3ii.

Mix.

D. T. J. (24/8).—CEMENT FOR CELLULOID.—A solution of celluloid in acetone; acetone and amyl acetate, equal parts; or ether (3) and spirit (1) is used for this purpose. Celluloid may be fastened to metal or wood by the use of the following:

Shellac	... 2 parts.
Spirit of camphor	... 3 parts.
Alcohol	... 4 parts.

G. A. B. (31/8).—The normal blood pressure in males is from 105 to 145 m.m. of mercury (systolic). For females it may be taken as about 10 m.m. less.

I. R. H. (2/9). See *C. & D. Diary*, 1921, p. 267, for the effect of trade-marks on proprietary medicines.

F. H. (31/8).—PRICE OF MIXTURE.—The following is the pricing of the prescription you send on the *C. & D.* system:

Bismuth. carb.	... 3xvij.	28.0
Sod. bicarb.	... 5ij.	2.0
Sodii broin.	... 3xvij.	4.5
Syr. codeinæ	... 5iv.	17.0
Tr. card. co.	... 5iv.	17.0
Aq. menth. pip.	ad. 3xvj.	7.5
Container	...	4.0
Dispensing oncost	...	8.0

Charge, 7s. 4d.

Ferrum (5/9).—COCONUT OIL LIQUID SHAMPOO.—See *C. & D.*, I., 1922, p. 12. You will realise that it is not practicable to repeat formulas at so short an interval.

Retrospect of Fifty Years Ago

Reprinted from "The Chemist and Druggist," September 14, 1872

Pharmacy at Sea

It will never be possible to carry out the regulations of the Pharmacy Act on ships at sea, and poor Jack must always be subject to the tender mercies of his skipper when he is an invalid. Some humorous anecdotes are current respecting the use and abuse of the medicine chest on board British merchant vessels. The following occurrence is vouched for: A sailor applied to his captain for relief, announcing that he seemed to have something on his stomach. The captain referred to his book of directions, and promptly prescribed a dose of No. 15. Unfortunately, however, there had been a run on No. 15, and the bottle was empty. But the skipper was by no means at the end of his resources, and probably a remembrance of old games of cribbage came to his mind. There was plenty of No. 8 and plenty of No. 7. "Seven and eight make fifteen," said the captain; and Jack, to whom the calculation seemed quite natural, took the joint mixture, with startling effect; for whatever was on his stomach came up with a rapidity that would have astonished the Royal College of Physicians, and which a landsman might have envied.

If you believe

In an advertised line giving a generous profit
 In novelty combined with utility
 In an item so bristling with selling points that a peasant could sell to a peeress
 In being supported by strong, common-sense, persuasive "no-talk-to-sell"
 advertising material. In a line where mere showing precludes unsaleability
 In not buying items that multiply your stock

.....THEN.....

P.A.T.A.
PROFIT
CENT
PER
CENT

you will waste no further time cogitating—but write post card now for 6 dozen at 5/3 doz. (P.A.T.A. 9d.) and rush it to the post—because there is just one line that fulfils the above, and that is

P.A.T.A.
PROFIT
CENT
PER
CENT

ZEPTO

The item that does not displace a line you now sell, which means additional trade and profit all the time.

THOS. CHRISTY & CO.
4/12 OLD SWAN LANE, E.C.4



WINNERS IN THE Quin Quenna HAIR BEAUTY CONTEST

Are illustrated below and will appear in the "Mirror" this week. The difficulty of judging was enhanced by the large numbers entering—which indicated popularity of the Competition—Chemists holding stocks should send at once for Diamond Bills with winners' photographs reproduced, and should arrange to display them in windows, also attractive leaflets announcing next competition.

Window Shows in conjunction prove irresistible and make sales easier than ever. Be in the next if you were not in this!

**WINNER OF CHILDREN'S
COMPETITION**
Master WAKEFIELD, 187 Winchester
Road, Highams Park, Chingford.

**CHEMIST who SUPPLIED
WINNER — PRIZE**
Mr. GAZE, 10 The Avenue,
Highams Park, Chingford.

£5

**NEXT
COMPETITION**

10/6

Starts Sept. 6th and ends Oct. 25th. Winning photographs appearing in "Mirror" about Nov. 6th. Send for particulars now.

£5

**WINNER OF LADIES'
COMPETITION**
Miss PHYLLIS COWDEN,
8 West End Avenue, Harrogate.

**CHEMIST who SUPPLIED
WINNER — PRIZE**
Mr. DEMAIN, Manager of Taylor's
Drug Co., Beaumaris Street, Harrogate.

10/6

SOLE SELLING AND DISTRIBUTORS:
THOS. CHRISTY & CO.
4/12 OLD SWAN LANE,
E.C.4

**4/-
PER DOZ.**

43%

**6d.
P.A.T.A.**



BRITISH DYESTUFFS CORPORATION, Ltd.



Manufacturers of

**ANTISEPTICS
PHOTOGRAPHIC CHEMICALS
FINE CHEMICALS FOR RESEARCH WORK
STAINS FOR MICROSCOPIC WORK**

Samples and Prices on application to
Sales & Export Dept. : 70 Spring Gardens, MANCHESTER.

Telephones :
Holborn 6749, 879.
Telegrams :
"OLSTRANKEM,"
Phone, London."

TOSCAT
BRAND
Reg. Trade Mark

Codes :
A B C, 5th Edition :
Bentley ; Marconi ;
Western Union.

SPECIAL OFFERS (best makes) :
CHLORAL HYDRATE
Phenacetin
Phenazone
SODIUM SALICYLATE
Powder and Cryst.
Butyl Chloral Hydrate
ACID ACETO SALICYL
HEXAMINE

And all Fine Chemicals and Alkaloids

The Old Strand Chemical & Trading Co., Ltd.
(Managing Director, Herbert A. Berens, B.A.Cantab., F.C.S.)
Audrey House, Ely Place, LONDON, E.C. 1.
Works at MAISSE, SEINE-ET-OISE, FRANCE.

DECOLORISING CARBON

of Highest Efficiency at Low Prices.
Various Grades for different purposes.

Samples and Offers on Application.

HALLER & PHILLIPS Ltd.

(Late JOHN GEORGE HALLER)
Mildmay Chambers, 69 Bishopsgate, London, E.C. 2.

DESICCATED GLAUBER SALTS, B.P.

JACKSON BROS. & CO.,
Hulme Hall Chemical Works,
MILES PLATTING, MANCHESTER.
'Phone : 4752 Central. 'Grams : "Epsoms," Manchester.

Malt Extract with Cod Liver Oil

We shall be pleased to receive your enquiries for Malt Extract with Cod Liver Oil and Malt Extract for the coming season's requirements. We will pack and deliver how and when you desire.

C At the same time let us quote you for general toilet and pharmaceutical preparations.

FOR IMMEDIATE DELIVERY:—

HEXAMINE

ACID TANNIC

(TECH. & LEVISS)

ACID PYROGALLIC

(CRYST. & RESUB.)

ACID ACETO SALICYLIC

(ASPIRIN)

ALSO

CHEMICALS FOR ALL PURPOSES

**JOHNSON & SONS, Manufacturing Chemists, Ltd.
23 CROSS STREET, FINSBURY, E.C.2.**

ALKALOIDS

Fine Chemicals Opium Derivatives

SALICIN
CAPSICIN
CANTHARIDIN
PODOPHYLLIN
HYOSCYAMINE
HOMATROPINE
JALAP RESIN
IRIDIN
ALOIN
GINGERINE
LITHIA SALTS
SCAMMONY RESIN

MORPHINE
CODEINE
STRYCHNINE
CAFFEINE
EMETINE
THEOBROMINE
CHLOROFORM

OPIUM
TELA VESICATORIA
VERATRINE
ATROPINE
CHRYSAROBIN
DIAMORPHINE
EMETINE
BISMUTH IODID.
EMP. CANTH. LIQ.
ETHYL MORPHINE
HYDROCHLOR.
ERGOTIN

T. & H. SMITH LTD

BLANDFIELD WORKS: 25 CHRISTOPHER STREET: 32 & 34 VIRGINIA STREET
EDINBURGH : LONDON, E.C.2. : GLASGOW.

ACID SALICYLIC

Actual Manufacturers:
**WARRINGTON
CHEMICAL & DRUG CO.**
Paddington Works, Nr. WARRINGTON.
Telegraphic Address: "Salicin Warrington."

SACCHARINE, THE REAL BOOT BRAND, "DR. FAHLBERG."
POT. SULPHOGUAIACOLATE, MERCURIALS, HEXAMINE, ETC.

RONSHIEIM & MOORE, 11a Wormwood Street, LONDON, E.C.2
Telephone: BANK 801. Telegraphs: "ASSIST, AVE, LONDON."

**TARTARIC ACID
CREAM OF TARTAR
CITRIC ACID**

J. KHAMBATA & CO.
3 & 4 Gt. Winchester St.,
LONDON, E.C.2.

Telephone: London Wall 9306.

Telegrams:
Foreign—"Jehangir London."
Inland—"Jehangir, Ave, London."

ACIDS (Pure and Commercial)

SULPHURIC
HYDROCHLORIC
NITRIC
LACTIC
OXALIC
PERCHLORIC ACID
Puriss for potash determination,
TARTARIC
CITRIC, &c., &c.

**FINE & MEDICINAL
CHEMICALS**

HYDROGEN PEROXIDE (100 vols.)
ALKALOIDS
SACCHARINE
MERCURIAL SALTS &c., &c.

**CRUDE DRUGS &
AMERICAN BOTANICALS**

ROOTS
HERBS
LEAVES
BARKS, &c., &c.

Ask Berk

F. W. Berk & Co., Ltd.,
1 Fenchurch Avenue,
London, E.C.3

Telephone: Avenue 4032 (5 lines)
Telegrams: "Berk, Phone, London."

Works: Abbey Mills Chemical
Works, Stratford, E.15
Pentrepoth Chemical
Works, Morriston.

Sole makers of BAA, purest and best
accumulator acid.



Branch Works:—

BRADFORD.

Telephone: LUTON 891.
Telegrams: LAPORTE.
Codes: MARCONI,
A B C, 5th,
BENLEY'S.

B. LAPORTE LTD.

CHEMICAL MANUFACTURERS,

LUTON.

HYDROGEN PEROXIDE

HYPOCHLORITE of SODA

HYPOSULPHITE of SODA

PERBORATE of SODA

OXALIC ACID

SULPHITE of SODA

BARIUM SALTS

SAL-ACETOS POWDER



Hubbuck's Pure Oxide of Zinc

is made by sublimation, and is warranted to contain upwards of

99·5 PER CENT.

of pure oxide; in fact the impurities are not traceable.

Thos. Hubbuck & Son, Ltd.

ESTABLISHED 1765

24 Lime Street, London, E.C. 3.

MANUFACTURERS OF WHITE LEAD, WHITE ZINC, PAINT, OILS, COLOURS, VARNISHES, &c.

Australian Office: 34 Queen St., Melbourne.

Sold by the following Wholesale Druggists in Boxes of 7 lb. and 14 lb. stamped by the Manufacturers; also in 1-lb. Boxes and 1-lb. Glass Bottles.

Allen & Hanburys (Lim.)
Ayrton, Saunders & Co.
(Lim.)
Baiss Bros. & Company
Bell, Jno., & Co. [(Lim.)
Bleasdale (Lim.) [(Lim.)
Boots' Pure Drug Co.
British Drug Houses (Lim.)
Burgoynes, Burdges & Co.
Butler & Crispé [(Lim.)
Clay, Dod & Co.
Cockburn & Co. (Lim.)
Corbyn, Stacey & Co.
Dakin Brothers [(Lim.)
Duncan, Flockhart & Co.
Evans, Gadd & Co.
Evans Sons Lescher &
Wehl (Lim.)
Ferris & Co.
Gale & Co.
Glasgow New Apothecaries' Co.
Goodall, Backhouse & Co.
Harker, Stagg & Morgan
(Lim.)
Harkness, Beaumont &
Co.
Herrick, W. & R., & Co.
Hirst, Brooke & Hirst

Hodgkinson, Prestons &
King
Hodgkinsons, Clarke &
Ward
Horner & Sons
Huskisson, H. O., & Co.
Inman's Stores (of Edin-
boro')
Ismay, John, & Sons
Lofthouse & Saltmer
(Lim.)
Oldfield, Pattinson & Co.
Pinkerton, Gibson & Co.
Raimes, Clark & Co.
Raines & Co.
Rankin & Borland
Silversides, R. B. G.
Smith, T. & H. (Lim.)
Southall Bros. & Barclay
Summer, R., & Co.
Taylor, James
Thompson, John (Lim.)
Willows, Francis, Butler
& Thompson (Lim.)
Woolley, Jas., Sons &
Co. (Lim.)
Wright, Layman & Um-
ney (Lim.)
Wyley (Lim.)

Barry, E. J., New York
Finlay, Dicks & Co., New
Orleans
Chas. L. Huisking, Inc.,
5 Platt Street, N.Y. York
Lehn & Fink, Inc., N.York
McKesson & Robbins,
Inc., New York

Muth Brothers & Co.
Baltimore
Roller & Shoemaker,
Philadelphia
Schieffelin & Co., Inc.,
New York
Shoemaker & Busch,
Philadelphia

SAPONINE POWDER (Soluble)
CREAM OF TARTAR 99/100% B.P.
Finest Essential Oil Lemon
(NEW CROP).

We have large quantities
for sale and are quoting
particularly favourable prices.

C. W. FIELD, LTD.,
92 WOOD STREET - LIVERPOOL.

POTASS. BROMIDE B.P.

For £4 4s. 0d., cash with order,

We will send you, carriage paid, a one hundredweight case of Potassium Bro-
mide B.P. Crystals.

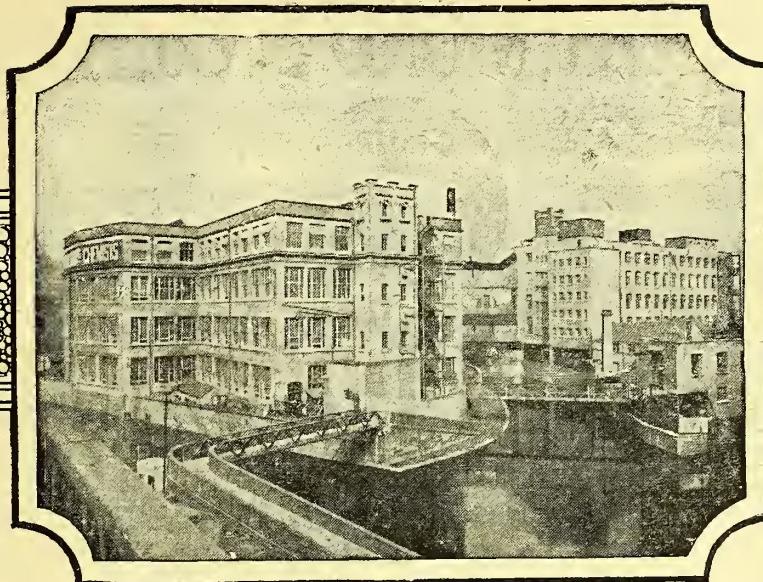
Prompt dispatch of all Bromides from stock.

THE FORMOL COMPANY,
277 HIGH HOLBORN, W.C.1.

Telephone: Holborn 433. Telegrams: Ellarbepea, Westcent, London.

GALENICALS

from Chemically and Physiologically tested Drugs
WILLOWS, FRANCIS, BUTLER & THOMPSON, LIMITED
40 Aldersgate Street, London, E.C. 1.



ALKALOIDS AND ACTIVE PRINCIPLES.

CANTHARIDIN.
ATROPINE AND SALTS.
HYOSCYAMINE AND SALTS.
THEOBROMINE SALTS.
HOMATROPINE AND SALTS.
DIGITALIN.

HYPNOTICS.

URADAL.
BUTYL CHLORAL HYDRATE.
.CHLORALFORMAMIDE.

ANTIPYRETICS.

ASPIRIN.
ACETANILIDE.
METHYL ACETANILIDE.

ANTISEPTICS.

ACRIFLAVINE.
PROFLAVINE.
CHLORAMINE-T.
DICHLORAMINE-T.
HALAZONE.
CHLORCOSANE.
RESORCIN MONO ACETATE.

CHLOROPHYLL (oil and spirit sol.)
QUINOPHAN—BOOTS.
GLUCOSE—PURE.

PRICES ON APPLICATION.

LOCAL ANÆSTHETICS.

BENZAMINE HYDROCHLORIDE.
BENZAMINE LACTATE.

SACCHARIN DERIVATIVES.

SACCHARIN (550).
SACCHARIN (soluble).
P. TOLUENE SULPHONCHLORIDE.
P. TOLUENE SULPHONAMIDE.

GLYCEROPHOSPHATES.

GLYCEROPHOSPHATES OF SODIUM.
CALCIUM, &c.

PERFUMES.

B. NAPHTHOL METHYL ETHER
B. NAPHTHOL ETHYL ETHER.
P. CRESOL METHYL ETHER,
GERANIOL AND ESTERS,
IONONE,
BENZYL ACETATE,
EUGENOL,
METHYL ACETOPHENONE.

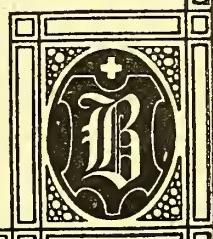
BOOTS PURE DRUG CO. LTD.,

MANUFACTURING CHEMISTS AND
MAKERS OF FINE CHEMICALS.

STATION STREET — NOTTINGHAM.

TELEPHONE : 3160

TELEGRAMS : "DRUG NOTTINGHAM."



BRUNNER, MOND & CO., LIMITED

Crescent

Brand



ALKALI PRODUCTS

These products are made by the Ammonia process and are distinguished by their great purity.

PURE ALKALI, 58 Degrees

A dry, white powder : dissolves quickly and easily in water, making an excellent detergent for use by printers, bleachers, dyers, and for bottle washing. Is nearly equal to 99 per cent. carbonate of soda ; is much used by glass, paper and soap makers. The best alkali for soap powders and washing powders.

BICARBONATE OF SODA

This Bicarbonate answers all the requirements of the British Pharmacopoeia. It is a pure, refined and recrystallised salt, particularly free from metals or any base other than soda. This sodium bicarbonate is specially suitable for the preparation of granular effervescent preparations and salines, seidlitz powders and baking powders, and is well adapted for other medicinal and domestic purposes. It is the purest and cheapest sodium bicarbonate made.

PURE SODA CRYSTALS

CAUSTIC SODA

Solid, 76/77 per cent. ; 70/72 per cent. ; 60/62 per cent.
Flaked, 76/77 per cent.

CARBONATE OF AMMONIA (Lump and Powder)

SILICATE OF SODA

Retailers can obtain these products through any Wholesale House by specifying B. M. & Co.'s "Crescent" Brand.

The Manufacturers supply wholesale quantities only.

BRUNNER, MOND & CO., LIMITED, NORTHWICH, CHESHIRE.

LONDON OFFICE:
7, Cavendish Square, W.1.

PRECIPITATED

CRETA
PRÆCIP.



Lightest
on the Market.

CHALK.

All grades from the LIGHTEST to VERY DENSE.

MANUFACTURED BY

JOHN & E. STURGE, LTD., 18 Wheeley's Lane, BIRMINGHAM.

Agents:

H. J. BAKER & BRO., 81 Fulton Street, NEW YORK.

G. REINBOLD & CIE, 63 Rue des Archives, PARIS.

Also Manufacturers of—

CITRIC ACID, BICARBONATE OF POTASH, ROCHELLE SALTS and Pulv. SEIDLITZ, FLUID MAGNESIA, and "CITRATE OF MAGNESIA" & other Effervescent Saline Preparations.

Telegrams: "Sturgeon Birmingham."

CHAS. PAGE & CO., LTD.

47/51 KING WILLIAM ST., LONDON, E.C.4.

422/425 Royal Exchange, Manchester. 31 St. Vincent Place, Glasgow.

**ACETANILIDE
ACID BENZOIC
HEXAMINE
HYDROGEN PEROXIDE
PHENOLPHTHALEIN
&c. &c.**

WHOLESALE QUANTITIES ONLY.

TELEPHONES

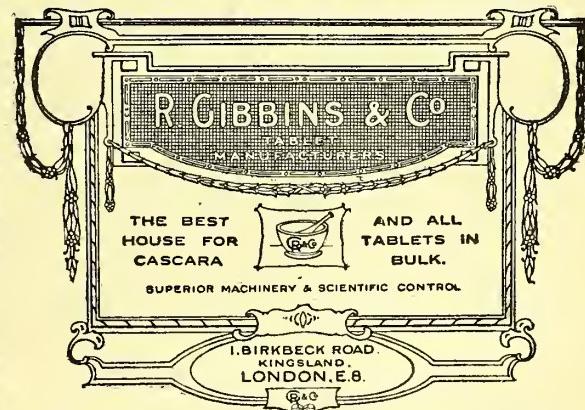
HEAD OFFICE: MINORIES 2250 (3 lines).
MANCHESTER: CENTRAL, 1882 (2 lines).
GLASGOW: CENTRAL, 452.

TELEGRAMS

"PAGANINI LONDON."
"PAGANINI MANCHESTER."
"PAGANINI GLASGOW."

**LEAD ACETATE
SAPONINE
ZINC SULPHATE
CRYSTALS**

**PETRI BROTHERS
39 LIME STREET, LONDON, E.C. 3.**

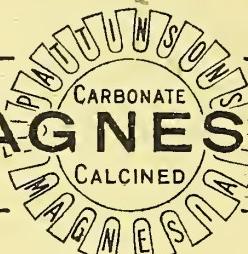


**THE LICENSES & GENERAL
INSURANCE CO., LTD.**

VICTORIA EMBANKMENT, next Temple Station, W.C.2.

TELEPHONE NOS.: CENTRAL 7360-1.

Trade

 CARBONATE
MAGNESIA

Mark

PATTINSON'S

MAGNESIA

Carbonate, Calcined, Fluid.

*The Washington Chemical Co., Ltd.,
Washington, Co. Durham, England.*

Telegrams: "Chemical, Washington Station." Telephone: 3788 Central, Newcastle-on-Tyne.

JORDAN ALMONDS. WALNUT HALVES. MUSCATELS.
 BARCELONA KERNELS.
 HEN YOLKS. ALBUMEN. GLUCOSE.
 LEMONS. LEMON JUICE (English Pressed).
 COCOA BUTTER. GELATINE. CONDENSED MILK. ETC.

JOHN F. CROOKALL, PRODUCE
15 STANLEY STREET MERCHANT,
LIVERPOOL.

SOLAZZI BECAUSE IS PRE-EMINENTLY THE CHEMIST'S BRAND
LIQUORICE JUICE

- 1 IT IS RECOGNISED AS SUCH BY THE LEADING MEDICAL JOURNALS.
- 2 IT IS RECOGNISED AS SUCH BY CHEMISTS AND THE PUBLIC, AS IS PROVED BY ITS UNINTERRUPTED SALE OF OVER 100 YEARS.
- 3 THE SALE IS HELPED BY STEADY AND INTELLIGENT ADVERTISING.
ASK YOUR WHOLESALER FOR OUR LATEST HANDBILL.
IT WILL INTEREST YOU AND IT WILL INTEREST YOUR CUSTOMERS.

CHAS. ZIMMERMANN & CO. (Chemicals), Ltd.**9 & 10 ST. MARY-AT-HILL, LONDON, E.C.3.**Essential Oil Dept.: Manager, Mr. W. V. Guénigault, 33 St. Mary-at-Hill, E.C.3.,
And at 6 Fennel St., Manchester.

Telegrams: "ACIDOLAN LONDON."

Telephones: Minories 1866 (4 lines).

Entirely British Firm.**Chemicals for all purposes, Drugs, Essential Oils, &c.****STRICTLY WHOLESALE.**

ACETANILIDE	GALLIC ACID	PARAMIDOPHENOL
ACETIC ACID	GELATINE	PEPSINE
ACETOSALICYLIC ACID	GLYCERINE	PETROLEUM JELLY
ADEPS LANÆ	GLYCEROPHOSPHATES	PHENACETINE
ALOIN	GUAIACOL ABSOLUTE	PHENAZONE
AMIDOPYRIN	GUAIACOL CARBONATE	PHENOLPHTHALEIN
AMIDOL	HELIOTROPIN	PIPERAZINE
ANILINE DYES	HETRALINE	POT. BICARB.
ANTIPYRINE	HEXAMINE	POT. BROMIDE
ARSENIC	HYDROKINONE	POT. IODIDE
BENZOIC ACID	HYPOPHOSPHITES	POT. PERMANG.
BENZONAPHTHOL	ICHTHYOL	PRECIPITATED CHALK
BETANAPHTHOL	INSECT POWDER	PROTARGOL
BISMUTH SALTS	IODIDES	PYRAMIDON
BORACIC ACID	IDOFORM	PYROGALlic ACID
BORAX	LACTIC ACID CONC.	QUININE
BROMIDES	LANOLIN	RADIUM
CAFFEINE	LAVENDER OIL	RADIUM PREPARATIONS
CALCIUM LACTATE	LECITHIN	RODINAL
CAMPHOR MONOB.	LEMON OIL	SACCHARINE
CARMINE	LITHIA SALTS	SAFFRON
CASTOR OIL	LYCOPodium	SALICYLIC ACID
CHLORAL HYDRATE	LYSOL	SALOL
CHLOROFORM	LYSOLINE	SODA BENZOATE
CHLOROPHYLL	MAGNESIUM	SODA HYPOSULPHITE
CITRIC ACID	MERJODIN	SODA SALICYLAS
COCAINE	METHYL SALICYLATE	SOZOIODOL
CODEINE	METHYL SULPHONAL	SUBITOL
COD LIVER OIL	METOL	SUGAR OF MILK
COUMARIN	MORPHIA	SULPHONAL
CREAM OF TARTAR	OPSONOGEN	SYNTHETIC PERFUMES
CREOSOTE CARBONATE	ORRIS ROOT	TANNIC ACID
CREOSOTE ex B. WOOD	OTTO OF ROSE	TARTARIC ACID
DEVATOL	OXALIC ACID	TERPINEOL
DIASTASE	PANCREATINE	THYMOL
ERGOT OF RYE	PAPAINE	VANILLIN
ESSENTIAL OILS	PARAFFIN LIQ.	VERONAL
FLOWER OILS	PARAFORMALDEHYDE	YOHIMBINE
FORMALDEHYDE	PARALDEHYDE	



British Manufacturers!

There is a market for certain classes of British products in the United States.

We have an outlet

for attractively priced druggists' sundries—pharmaceuticals and chemicals and would like to have your offerings.

Correspondence cordially invited

London Representatives:
H. B. SLEEMAN & CO. Ltd.
84 Leadenhall St., E.C.3.

E. FOUGERA & COMPANY, Inc.
Est. 1849
90-92 Beekman Street New York City

Cable Address:
"CELAITCH NEW YORK."

Codes:
A B C, Fifth; Bentley's Improved Private.

CHAS. L. HUISKING, INC.

5 Platt St., New York City.

**BROKERS & COMMISSION MERCHANTS,
DRUGS : CHEMICALS : OILS : SPICES.
PROPRIETARY MEDICINES, DRUGGISTS' SUNDRIES.**

*Buying and Selling Agents for leading
Houses in all parts of the World.*

European Manufacturers desirous of placing their goods in the American market would do well to communicate with us. Our outlet for goods is very large.

London Correspondents—CHAS. L. HUISKING, LTD., 74 Gt. Tower St., London, E.C. 3.

Cable Address: "CELAITCH LONDON."
Telegrams: "CELAITCH, BILGATE, LONDON."

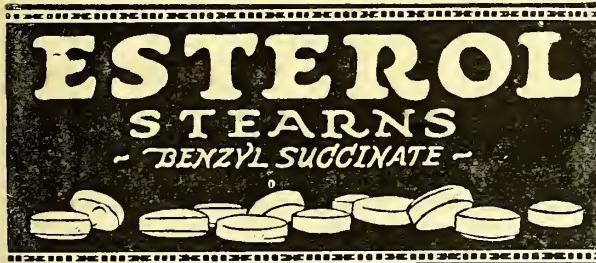
Phone: MINORIES 2652.



ESTEROL—Stearns

The New Idea in Benzyl Medication

One of the most talked about subjects in medical circles today is Benzyl Medication. ESTEROL-Stearns (Benzyl Succinate) is a definite chemical compound, a white crystalline powder made into 5-grain tablets. Unlike Benzyl Benzoate, a highly disagreeable liquid, it will not nauseate the most sensitive stomach.



ESTEROL-Stearns replaces Morphine in many instances without habit-forming consequences, and is being used extensively and successfully in the treatment of Dysmenorrhea, Asthma, Hiccough, Angina Pectoris, Hypertension, Intestinal disturbances and in cases where an active, non-depressant, non-narcotic, anti-spasmodic is required.

In producing ESTEROL-Stearns Frederick Stearns & Company have

ESTEROL-Stearns is supplied in bottles of fifty tablets, each tablet containing five grains ESTEROL-Stearns (Benzyl Succinate Medicinal.) Prepare to meet the demand by placing ESTEROL-Stearns on your want book now.

Manufactured solely by
Frederick Stearns & Company
Detroit, Michigan, U. S. A.

Branch Laboratories: Windsor, Ontario, Canada, and Sydney, Australia.
Branch Offices: New York, San Francisco, Calcutta and Cape Town.



taken the greatest step in the advancement of Benzyl Medication, since ESTEROL-Stearns is superior to Benzyl Benzoate, in that it contains over 40% more of the benzyl radicle, and being offered in tablet form it has a distinct advantage over Benzyl Benzoate liquid.

Gelatines

Fine Leaf Gelatine, Pure Calf.

"Albion" Brand (In 1-lb. Packets,
112 x 1-lb. to Case)

Made in England.

FINE CRYSTAL GELATINES.
PURE SKIN GELATINES.
POWDERED GELATINES.

Samples on Application.

OURY, MILLAR & CO. 9 MINCING LANE,
LONDON, E.C.3.

Telegrams: "Olmenth London."

Telephone: Avenue 4978.

Sal Hepatica

THE
STANDARD
SALINE
LAXATIVE



Bristol-Myers Co.

New York

Exclusive Agents:

STONE-BALLANTINE Ltd.
13 Well Court, Queen Street, London, E.C. 4.
Obtainable from all Wholesalers.

Himrod's
ASTHMA
CURE

*Established
50 years.*

IT is a powder to be burned and the fumes inhaled without any bad after-effects. Recommended by physicians throughout the world.

"I have tried every remedy ever invented, and 'Himrod's Cure' is the only one in which I have absolute confidence."—EMILY FAITHFUL.

"This is an excellent remedy for Asthma."—Sir MORELL MACKENZIE (in his Clinical Lecture at the London Hospital and Medical College).

"The only relief I could get; if I had only known of it before,"—LORD BEACONSFIELD, in his dying moments.

Himrod Manufacturing Company,

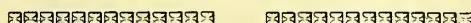
SOLE PROPRIETORS,
270 WASHINGTON STREET,
JERSEY CITY, N.J., U.S.A.

"Rexall
Remedies"
and Toilet
Preparations



Jontee^l
Beauty
Requisites

EXCLUSIVE AGENCY



IN THE YEAR 1903 forty retail chemists in America pooled their formula, their experience, and financed a new co-partnership chemists' venture under the trade mark "Rexall"

The original members laid down as a cardinal principle of the United Drug Company the policy of

NO COMPETITION

in their ranks, by placing only one Rexall Agency in each town or city territory.

This fundamental policy established by the United Drug Company, in maintaining exclusive agencies in the full enjoyment of their rights as agents in control of the trade-marked products of the United Drug Company in their respective territories, has been

REPEATEDLY RE-AFFIRMED

by the International Association of Rexall Clubs and the Officers and Directors of the United Drug Company.

The Rexall Chemist, nearly twenty years after the Company was founded, knows that he is the only Rexall Agent in his district for all time, and that he need not fear competition.

All we ask in return for this Valuable Exclusive Agency is the Chemist's active co-partnership. When the Rexall Chemist sells Rexall Goods he is working for himself, as the

CUSTOMER MUST RETURN TO THE Rexall PHARMACY FOR REPEATS.

Rexall now consists of 10,000 of the leading Chemists in the English-speaking world.

If you are interested in this world-famous Chemists' co-operative enterprise, and there is no Rexall Pharmacy in your vicinity, we will be glad to send you details, without any obligation on your part.



UNITED DRUG COMPANY, LTD.

Waterway Street,
NOTTINGHAM.

"FIRSTAID"
Surgical
Products

Klenzo
Dental
Preparations

CROOKES' COLLOSOLS

The Original Colloidal Preparations for Medicinal Use.

COLLOSOL ANTIMONY
COLLOSOL ARGENTUM
COLLOSOL ARSENIC
COLLOSOL CUPRUM
COLLOSOL FERROMALT
COLLOSOL HYDRARGYRUM
COLLOSOL IODINE
COLLOSOL MANGANESE
COLLOSOL PALLAMINE
COLLOSOL SELENIUM
COLLOSOL SULPHUR

Telegrams :
"COLOSSALLY, WESTCENT,
LONDON."

Telephone :
MUSEUM 3663-3697.

Coryton's

THE astounding growth of Collosol script during the past few months has been commented upon by the trade.

Vigorous propaganda has brought the exceptional value of these products prominently before the medical profession, which is prescribing them in increasing quantities.

The margin of profit given makes the Collosol preparation an attractive one from the pharmacist's standpoint, and he enjoys the prestige of association with distinctive and really reliable products.

THE CROOKES LABORATORIES

(British Colloids Limited),
22 CHENIES STREET,
TOTTENHAM COURT ROAD, W.C. 1.



THE GREAT NERVE FOOD AND FLESH BUILDER.

IRVONA is obtainable from all the usual wholesale houses, or direct, at the following prices—**3/-** size, **27/-** per dozen.

15/- " **135/-** " "

"IRVOLAX" (the safe aperient).

1/3 size **12/-** per doz.
3/- " (four times the quantity) **27/-** "

MOLVENE

(the safe flesh reducer).

3/- packet **29/-** per doz.

Terms Net 30 days, subject to usual trade references.
For orders under 27/- in value cash with order.

P. J. WILLIAMS

Chiswell Chambers, 27 Finsbury Street,
LONDON - - - E.C. 2

Guaranteed Relief
— or MONEY BACK★



For Rheumatism, Lumbago, Neuritis,
Gout, Sciatica, and all other Uric Acid
Complaints.

A Nationally Advertised Line that pays
Retailers 25% on a steady increasing
sale. Send now for Special First Stock
Parcel : 1 doz. 3/- size, 1 doz. 5/- size,
½ doz. 12/- size. Any quantity Carriage
Paid. Window Display Terms on
Application. All Wholesalers stock
PHYSIKURATE.

On P.A.T.A. List

*As advertised, any dissatisfied customer will receive
money back on applying direct—this saves you from
trouble and ensures your recommendation and profit.*

**PHYSIKURATE, Ltd., 92a Upper Clapton Road,
LONDON, E.5.**

"**WORKS WHILE YOU SLEEP**"

A Sure Profit of 20%.

Urodonal

Costs you **48/- & 115/2½ per doz.**

Sells at **5/- & 12/-**

It is backed by an extensive advertising campaign. Urodonal is in every home—it has a constant demand. Urodonal stands for clear profits—are you getting your share of these?

Jubol, Globéol, Gyraldose, Pagéol, Fandorine, Sinubérase, Filudine, Jubolitan, Jubolitoires, Vamianine, Dialiro, Linycol, Rhino-Fogyl, Fogyl, Romanyl,

Poral, Poralin, Noctyl, Rucoval, Furostyl, Succine, Corivore - Plaster. Collampoules : Vamiol, Bokanol, Gamostyl, Plasmocol, Dosarter, Pyran, &c.

From—Sangers ; May, Roberts ; Butler & Crispe ; Wilcox, Jozéau & Co. ; and all Wholesalers.

Write for Price List and Terms to—

M. E. BOUSSARD, 7 Paddington Street, LONDON, W.1.

Sole Agent for Chatelain's Laboratories, Paris.

Business Truisms!

The Value of Concentration.

"Jack of all trades, master of none." How many people we know who are in this sorry plight. In the retail business the same rule of concentration should apply. It might be drawn up after this fashion. "If you try to push *everything*, you impress with nothing. Give special attention to certain good lines and the others will sell of their own accord."

In this connection we would mention the remarkable efficacy and popularity of Sphagnol Soaps and Ointment, the one *natural* skin remedy. We suggest a window display ; write us for particulars.

Sphagnol

SOAPs and OINTMENT
(P.A.T.A.)

The proven remedy for all skin troubles.

Handsome new show card (full colours) sent free with first order
PEAT PRODUCTS (Sphagnol), Ltd.

Dept. B.9.

18-19 QUEENHITHE, LONDON, E.C. 4.

SYRUP



(ROBERTS)

Recognised by the Medical Profession as
THE BEST TONIC.

Supplied in 8-oz. and 16-oz. Bottles by all the
Wholesale Houses.

Inquiries Invited for
NEW & RARE
MEDICINES

of French, Italian and Russian Origin.

ROBERTS & CO.,

76 New Bond Street,
London, W.

5 Rue de la Paix,
Paris.

SEPTEMBER

means that you will have to be thinking of your winter requirements and we are at your service. Before placing order for

MALT AND OIL COD LIVER OIL EMULSION COUGH MIXTURES

and the many other specialities necessary to the winter trade give us the opportunity of quoting and submitting samples. We specialise in packed goods of every description necessary to a chemist's business, and our reputation for these is world-wide.

Telephone:
Hop 2415.

ROBERT BLACKIE

Telegrams:
"Ushenspuna,"
London.

Shen Works, Tower Bridge Road, London, S.E. 1

HARROGATE TABLET COMPANY'S HELPFUL TALKS to CHEMISTS

- I. Dr. Stork's Worm Cakes.
- II. Health Granules.
- III. RESPINES.

"IF WINTER COMES" and when it does then the pharmacist who is a shrewd business man will see that his stock includes a sufficient quantity of the highest class PINE TABLETS. The name given to an article often helps to sell it, and what more appropriate name could be given to Pine Tablets than

"RESPINES"

since their function is to alleviate and cure all the usual disorders of the respiratory organs by the absorption of pine vapours.

If they are as good as their name, tell your customers so, if not, tell us.

They are packed in most attractive two ounce cartons (retailed at 6d. each) and the profit to the pharmacist is never less than 100 per cent.

Showcards, Cartons and Streamers Supplied.

HARROGATE TABLET CO., LTD.
CHATSWORTH GROVE,
HARROGATE.

NURSE HARVEY'S MIXTURE

A safe, simple, and reliable remedy for Children's Ailments is advertised so extensively in the daily and weekly Press as to bring mothers to the retailer without effort on his part.

The selling has been done before the mother reaches the chemist, and, having supplied her, it is only common sense to claim she will buy other family necessaries from him. Moreover, the retailer has a profitable return on a quick turnover.

For Direct Terms apply to—
OSCAR SCRUTON & CO., YORK

ENGLISH HERBS.

WE are now prepared to supply the following goods of our own collection at very low prices. Quality guaranteed.

DANDELION ROOT
BELLADONNA ROOT
COMFREY ROOT
WHITE BRYONY ROOT
YELLOW DOCK
ROOT

MALE FERN
RHIZOME
DOG GRASS
(*Triticum Repens*)
COLCHICUM CORMS
COLCHICUM SEED

Also all the leading English Dried Herbs. A full List on Application.

FLEMONS & SONS (*Herb Merchants*) **DUNSTABLE**



'GRIPS'

*Advertising
sends the Customers
to your Counter*

SAVE YOUR
"GRIPS" EMPTIES
FOR BIG
Window Display
Competition

.....
Over £200
Cash Prizes.

.....
Details later.

HERE'S the right kind of business for you.
Stock up with "Grips" First-Aid Pastilles—
we'll send you the customers.

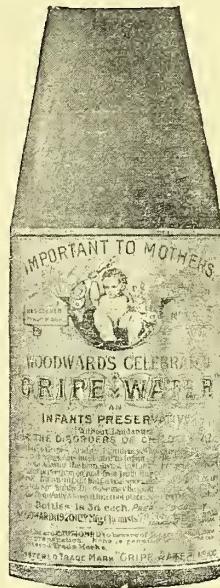
Large Advertisements will appear in the leading
London and Provincial newspapers and periodicals.
Millions will read them and come to you for "Grips."
It's up to you to meet the demand.

Write now for particulars of our big Advertising
Campaign and "Grips" terms to

Thos. Christy & Co.,
4-12 OLD SWAN LANE, LONDON, E.C. 4.

'GRIPS' FIRST-AID
PASTILLES

One of the very best sellers in *your* business, with a specially rapid sale, and well advertised.



WOODWARD'S "GRIPE WATER"

1/3 per Bottle.

(Under the protection of P.A.T.A.)
NET PRICE

1 gross, delivered carriage paid and in free case to your door, £7.

Your Profit is 28½ per cent.

Apply to your Wholesaler for Window Display terms to retail pharmacists, or to Sole Proprietors

1/3

W. WOODWARD (1920) LTD., 79-87 Fortress Rd., London, N.W.5.

KRENOMAR REGD. Toothache Powder

as advertised in various newspapers.

"A grateful world to the dealer in happiness."
—The Count of Monte-Christo.

There is nothing more troublesome to the ordinary human being than disease of the Teeth.

A Grateful World

will therefore appreciate the inventor of this

Marvellous Cure

as a dealer in happiness to The Million.

INSTANT RELIEF FROM ALL PAIN.
SWELLING OF THE GUMS REMOVED.
ABSCESSES HEALED.
ALL INFLAMMATION TAKEN AWAY.

ONE MINUTE SUFFICIENT TO EFFECT A CURE WITH THIS POWDER.

Price 1/1½ per box.

Special terms to Chemists on application.

Sole Proprietors and Manufacturers:

The Proprietary Cures (Parent) Co., Ltd.

Capt. E. T. JACKSON, Managing Director.

Reg. Office: 85 ALBERT ROAD, MIDDLESBROUGH.

GARFIELD TEA

PROMPT SHIPMENT

ALL SIZES

Phone or Write :

GARFIELD TEA CO.

44 Foxbourne Road,
BALHAM, LONDON, S.W.17.

ERGOAPIOL (Smith) PROTECTIVE MARK

Patented in U.S. and Foreign Countries.

Ergoapiol (Smith) is now identified by the letters M.H.S. in the gelatin on the inside of each capsule. These letters are not visible from the outside, but they are plainly discernible in the gelatin when the capsule is cut in half.

MARTIN H. SMITH CO. NEW YORK, N.Y.

British Agents—

THOS. CHRISTY & CO., 4-12 Old Swan Lane, London, E.C.4.



GRISON'S PURE OATS COCOA

For generations Grison's Pure Oats Cocoa has been the wholesome means of sustaining and nourishing those who lose their grip on glowing health. Over a period of 30 years Grison's Oats Cocoa has been well known and appreciated abroad.

Grison's Pure Oats Cocoa is an admirable food for strengthening weak digestions and building up bone and muscle. For nursing mothers, invalids and the aged it has no rival. Medical practitioners in every country in the world recommend it.

Grison's Pure Oats Cocoa is old-fashioned simple fare—Nature's gift of the finest oats and cocoa truly mixed and blended with indispensable body-building salts.

Liberal free samples, with trade terms, sent to Chemists and Druggists on request.

This preparation is on the P.A.T.A. list and shows a good and uniform profit to all who handle it.

We are showing at THE NATION'S FOOD EXHIBITION, Olympia,
STAND 146a, ground floor - - SEPTEMBER 6th to 26th.

GRISON'S PURE OATS COCOA CO., LTD.,
72 RECENT STREET, PICCADILLY CIRCUS, LONDON, W.1.

TRUFOOD

The £100 LOOK

Will you help yourselves by helping us in our search for the HAPPY "TRUFOOD" £100 Look? To thousands of babies, "TRUFOOD" brings a comfortable tummy which is a well of happy smiles; and one of these babies is going to smile to the tune of £100. That is the First Prize we offer; £50 is the Second Prize, and the Third Prize is £20, and many handsome consolation gifts, including solid silver spoons, are also being given away.

Each entry must be accompanied by the pink pamphlet from the "TRUFOOD" tin, so the demand is sure to grow. We are issuing an attractive Window Bill about the competition, for your shop window. It will be worth your while to give an extra display.

To the Chemist who supplies "TRUFOOD" to the winning baby we are offering £20, and £10 and £5 to the Chemists supplying "TRUFOOD" to the second and third prize winners.

TRUFOOD LIMITED

THE CREAMERIES, WRENBURY, CHESHIRE

Head Office : Central Buildings, Blackfriars, London, E.C. 4

T.F.30—123 c

ATKINSON & BARKER'S INFANTS' PRESERVATIVE

THE BEST AND SAFEST INFANTS'
MEDICINE OF OVER 120 YEARS' STANDING.

Prices and Terms on application to R. BARKER & SON, Ltd.
13 Wesley St., C-on-M., MANCHESTER.

DOES
NOT
CONTAIN
any
SCHEDULED
POISON.



Sells readily ALL the time

COLEMAN & CO., Wincarnis Works, NORWICH.

IMPORTANT NOTE TO CHEMISTS WITHOUT LICENCES

It has been established by law that Registered Chemists may sell "Wincarnis with Quinine" without a licence.

**EVERY CHEMIST AND DRUGGIST
SHOULD SELL THE CELEBRATED
D. FÈVRE'S SELTZOGENE**

The BEST and
MOST ECONOMICAL
apparatus for home-made aerated water.

THE D. FÈVRE SELTZOGENE

is the most perfect article of its kind yet produced. Every detail has been carefully studied and improved by long experience. The apparatus is entirely covered with non-corrosive wire. Every part is interchangeable. Our screw top (of pure block tin, free from lead, and nickel plated) represents the best and most efficient system of closing.

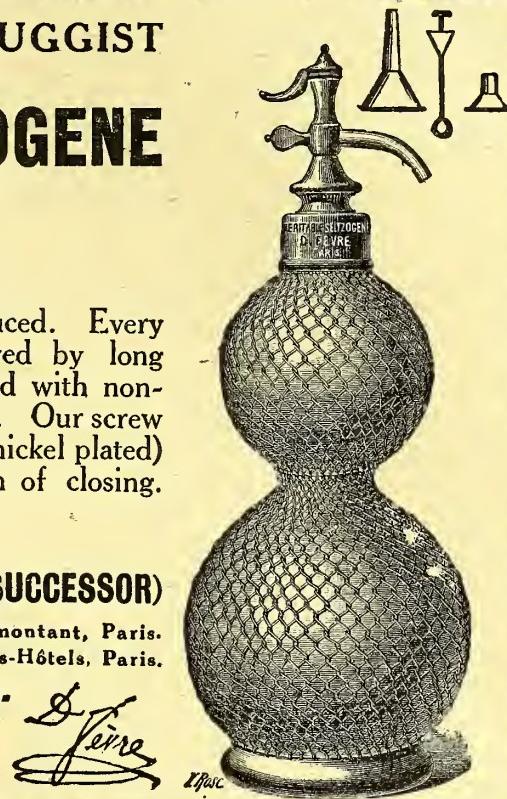
Manufactured exclusively by

VVE EUGÈNE THESSIER (SUCCESSOR)

(Established 1835.) 64 Boulevard de Ménilmontant, Paris.
Export Agents : GLADSTON & CO., 24 rue des Petits-Hôtels, Paris.

And all leading Druggists' Sundriesmen.

None genuine unless bearing the words "Veritable
Seltzogene D. Fèvre" and the Trade Mark Signature.



Phone :
138 Pendleton

Telegrams :
"Champagne Manchester."
ESTABLISHED 1855.

VIN FERRICITRATIS, B.P.

Liebig's Beef & Malt Wine

English Port Style

**British and Foreign
Wines of all varieties**

Bottles and Casks.

Specially low-cut prices for the Autumn 1922.

B. ROBINSON & Co. Ltd.
PENDLETON - MANCHESTER.

WRITE TO-DAY AND COMPARE OUR TERMS.

D^r HALE'S
VIN-SANGUIS,
WINE FOR THE BLOOD

Fountain of Health

If you have a
Wine License we
will pay the fee.

If not, get one,
we will pay
license.

Send for any

You agree to display
"Vin Sanguis" always.
You give us an
agreed initial order.
You always keep stock
further particulars.



PROPRIETORS OF
DR. HALE'S VIN-SANGUIS
Transcontinental Agencies Ltd.
14, Southampton St., London, W.C.2

Francis F. Fox & Co.: Bristol

LINSEED OIL. TURPENTINE.
 FINE OLIVE OILS.
 LIQUID PARAFFIN. CASTOR OIL.
 CHEMICALS. DRY SALTERY.
 PETROLEUM JELLY.
 CRUSHED LINSEED.

PRICES ON APPLICATION.

TELEGRAMS—
"FOX BRISTOL."

TELEPHONE—
19 BRISTOL



Opportunities for Retailers

We often take back used
Cash Registers when
customers are installing
larger or more up-to-
date machines. These
National Cash Registers,

Thoroughly Overhauled and Rebuilt

are sold under the
Company's full guarantee
at reduced prices.

Write for details of "Nationals"
available, Dept. R.9, The National
Cash Register Co., Ltd., 225
Tottenham Court Rd., London, W.1

PRINTING ON TIME!

Our System of Printing
LABELS, CARTONS,
ENVELOPES and
GENERAL PRINTED
MATTER
assures you of a delivery service
SECOND TO NONE.

*Window Tickets written in good style at
moderate prices. Write for particulars.*

ALF. HARRISON & SONS
Chemists' Printers,
224 BURLEY ROAD, LEEDS.

Telegrams: "Ideas Leeds."

Telephone: 26674.

We invite your enquiries
for—

OILS

including

**MINERAL & LUBRICATING
OILS OF ALL KINDS.**

ARACHIS NUT OIL	FINEST B.P.
CASTOR OIL	CONTINENTAL & ENGLISH B.P. TECHNICAL.
COTTON OIL	EDIBLE REFINED.
COD LIVER OIL	FINEST NORWEGIAN NON- FREEZING.
COLZA OIL	GENUINE CATTLE QUALITY.
LINSEED OIL	GENUINE & BURNING QUALITIES.
NEATSFOOT OIL	GENUINE BOILED, PALE- BOILED & RAW.
OLIVE OIL	FINEST ACIDLESS.
PARAFFIN LIQUIDUM	EDIBLE & PHARMACEUTICAL B.P. INDUSTRIAL.
PETROLEUM JELLY	'880 & '870 B.P.
ROSIN	WHITE & YELLOW B.P. TECHNICAL RED & GREEN. ALL GRADES, FRENCH & AMERICAN.
SPERM OIL	FINEST PALE COLOURED.
SOYA BEAN OIL	FINEST EDIBLE.
TURPENTINE	GENUINE AMERICAN SPIRITS AND SUBSTITUTES.
WHITE OILS	TECHNICAL QUALITIES.

JAMES ARNOTT & SONS, LTD.,

Head Office: 47 PILGRIM STREET, NEWCASTLE-ON-TYNE.

SUTTON's

(A good name is more than riches.)



CLOUDY AMMONIA

goes one better than ordinary ammonia in quality—and profit. Recommend it and reap that benefit.

We do not put the label on until the quality is there.

All experienced buyers know that the name of Sutton stands for trustworthiness, uniform high quality, and absolute purity.

Please send for terms:

G.F. SUTTON, SONS & CO.
Osborne Works, Brandon Road,
KING'S CROSS, LONDON, N.7

Motor Tractor Oils

HEAVY

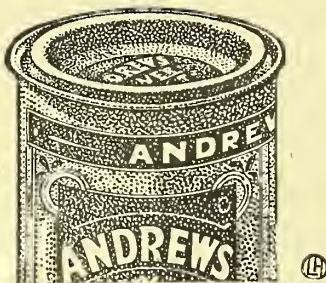
MEDIUM

Enquiries solicited for all Grades of Oil.

Langley-Smith & Co.
14-20 St. Mary Axe, London, E.C. 3.

Telegrams - - "Tallowdom London."
Telephone - - - Avenue 3820.

(8)



The adjudication of Andrews' Window Displays is going on apace.

Photographs of "Andrews' Liver Salt" Window Displays have "rained" upon us.

The huge number of Photographs and general high standard of excellence of the Displays are giving the Judges a busy and a pleasurable time.

Our only regret is that we have not been able to announce the results ere this.

However, the work of careful judging is nearing completion, and we hope to issue complete results, in these Advertisement columns, either next week or the week following.

Watch for our announcement, your name may be included.

SCOTT & TURNER, Ltd., Manufacturers, Gallowgate, NEWCASTLE-UPON-TYNE.

RUBINAT-LLORACH

NATURAL APERIENT WATER

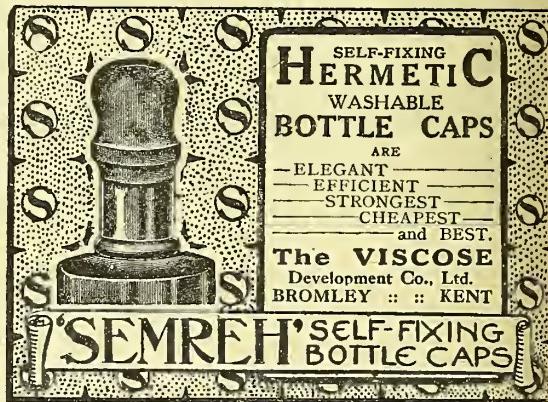
Springs: Spanish Pyrenees.

The demand is growing and will continue to grow. Make sure that you have at least a few bottles on hand. If you have no stock, you are missing BUSINESS and GOOD PROFITS. Carriage paid even on small quantities.

SPECIAL TERMS.

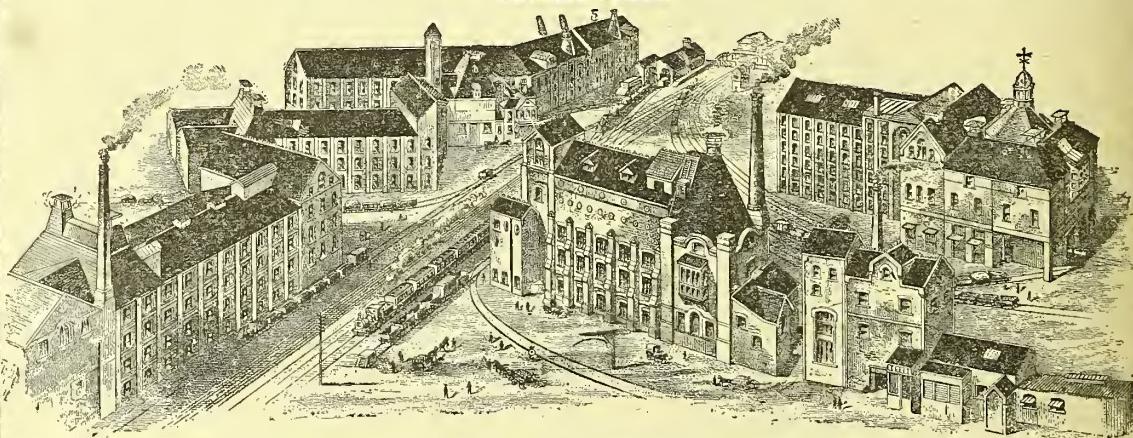
SOLE DISTRIBUTORS:

EVERETT & COMPANY,
Natural Mineral Waters Branch,
5 LLOYD'S AVENUE, LONDON, E.C.



MALT EXT. WITH COD LIVER OIL

Direct from the Actual Manufacturers.



THE BRITISH DIAMALT COMPANY'S WORKS AT SAWBRIDGEWORTH.

City Office—9 Holborn Viaduct, London, E.C. Northern Office—Arcade Bldgs., 85 Lord St., Liverpool

PHOSFERINE

New Window Display Conditions.

Monthly Account.Carriage Paid.

For a small Central Window Display of not less than 14 days and an order for £5 worth of Phosferine we allow a bonus of 10/6; on a £2 10 0 order 5/3.

This shows a net profit on the transaction to the Chemist of 35%, besides attracting the passer-by to the window and considerably augmenting sales generally.

Should a £5 or £2 10 0 parcel not be required, any smaller quantity will be forwarded carriage paid, and can, if desired, be regarded as part of the £5 or £2 10 0 order. On completion of the order and a notification that the display is in progress the bonus will be allowed.

EXAMPLE.

		<u>COST</u>	<u>SELLS FOR</u>
3½ dozen 1/3 size at 12/- net	...	£2 2 0	£2 12 6
2 " 3/- " at 30/- "	...	3 0 0	3 12 0
		5 2 0	
Less 10/6 for Window Show	...	10 6	
		£4 11 6	£6 4 6

*Showing a Net Profit of £1 13 0 on an outlay of £4 11 6.
Window Display Material Free and Carriage Paid.*

WHOLESALE PRICES OF PHOSFERINE.Carriage Paid.Monthly Account.

1/3 size	...	12/- per doz. net.
3/- "	...	30/- " "
5/- "	...	48/6 " "
12/- "	...	114/- " "

PROTECTED PRICES.

Phosferine, and all of our Proprietary Medicines are supplied on the condition that they are not retailed in the United Kingdom under the following prices—viz., 1/3, 3/-, 5/-, and 12/-.

ASHTON & PARSONS, Ltd., Ludgate Hill, LONDON, E.C.4.

Telephone No.: CITY 8733. Telegraphic Address: "PHOSFERINE, CENT, LONDON."

IMPORTANT.—Every care is used in corking and packing Phosferine, but occasionally a leaky bottle will pass undetected. Any leaky or faulty bottle should be returned to Ashton & Parsons, Ltd., Ludgate Hill, London, E.C. 4, when a fresh supply will be sent and postage refunded.

LIQUID PARAFFIN B.P. 1914

EXCLUSIVELY REFINED FROM

RUSSIAN CRUDES.

ALL GRAVITIES.

HIGHEST VISCOSITIES.

"JASMINE BRAND" PETROLEUM JELLIES B.P.

White and Yellow Tasteless and Odourless.
Natural Filtered and Opaque.

"JASMINE BRAND" WHITE OILS

Chem. Pure, Water-White,
Tasteless, Odourless.

FOR MANUFACTURING PURPOSES.

LUBRICATING OILS

FOR ALL PURPOSES.

All Our Products are Guaranteed of Finest Qualities and Our Prices are Competitive.

THE PURE RUSSIAN LIQUID PARAFFIN CO., LIMITED

3 ST. HELEN'S PLACE, LONDON, E.C.3.

Actual Refiners and Manufacturers at their Works near London.

THE CHEMIST AND DRUGGIST

SUPPLEMENT

42 CANNON ST.
LONDON E.C.4

SEPTEMBER 9, 1922

This Supplement is inserted in every copy of The Chemist & Druggist.

THE SUPPLY OF SUPPLEMENTS.

The clerical work in connection with the posting of spare copies of the Coloured Supplement week by week has increased to such an extent that we have been compelled to reorganise our system of distribution. Our readers will please note, therefore, that, in future, instructions can be accepted for not more than six successive issues of the Supplement at a time, and that in every case

Addressed Wrappers Stamped One Penny

must be sent. Loose stamps will not be accepted.

EARLIER CLOSING FOR PRESS. Will advertisers please note that until further notice it will be necessary that Advertisements intended for the Supplement must reach us not later than the **FIRST POST THURSDAY MORNING.**

CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone No.: City 2283.

May be consulted at their Offices on matters of SALE, PURCHASE and VALUATION.

—SOUTH KENSINGTON (Main Road).—Good-class Retail Dispensing Business; returns about £3,500 per annum, with scope for considerable increase under energetic management; prices are obtained; well-fitted, single-fronted shop, fully stocked; held on lease. No reasonable offer refused.

—LONDON, S.W.—Manager, with view to succession within next twelve months, for Cash Retail Business, with N.H.I. dispensing; returns average £2,600 per annum, with scope for increase; net profit, about £650; rent £48; held on long lease; investment would require about £1,800.

—MIDDLESEX (Suburban).—Good-class Suburban Business, retail and Dispensing; returns last year, £2,200; at full prices; double-fronted shop, fitted in mahogany and well stocked; held on lease at net rental of £55 per annum. Price to be arranged equitably.

—LONDON, S.E.—Nucleus of a Manufacturing and Wholesale Chemist's Business; the turnover at present is small through want of attention, but the opportunity exists to create a good business; low rent; about £200 required.

—LONDON, N. (Main Thoroughfare).—Ready money Retail Dispensing Business, in prominent position; returns over £6,000 per annum, under management, at good prices; new lease will be granted; price to be arranged equitably.

—KENSINGTON.—Family Retail and Dispensing Business, established 75 years; returns, present rate, about £1,500 per annum; gross profit, 40 per cent.; single-fronted shop; good working stock; held on lease; rent £60; sublet £91. Price about £50.

—LONDON, E.C. (Near Busy Station).—City Pharmacy, old-established, situated in one of the main City thoroughfares; gross receipts, about £6,500, increasing; new lease will be granted; price about £4,500.

—WEST OF ENGLAND.—Cash Drug Store; returns exceed £50 per week, with scope for extension under qualified management; gross profit 33½ per cent.; single-fronted shop, well fitted

and stocked; rent £39, inclusive; terms, goodwill and fixtures £250, stock at valuation, or lump sum offer of £900 would be accepted.

—SOUTH COAST (Popular Health Resort).—Cash Drug Stores, with Stationery, Confectionery, and Tobacco, returns, about £70 per week, more in season; there are two shops with living accommodation; vendor owns the property, and would sell same or grant leases; to effect a speedy transfer a moderate sum would be accepted for the Businesses; suit unqualified.

—EASTERN COUNTIES.—Unopposed Country Retail Business; very old-established; returns, present rate, £1,800 per annum, at good prices; single-fronted shop; good house, in excellent repair; private entrance, and large garden; 21 years' lease, at moderate rental; price about £1,200.

—DORSET (Death Vacancy).—General Retail and Dispensing Business, with Optics; returns last year, £2,530; net profit, about 25 per cent.; the shop is well fitted and stocked; there is ample living accommodation; terms, goodwill, £250, stock and fixtures at valuation; freehold, £2,000; part payment entertained.

—GLAMORGAN (Market Town).—General Retail and Dispensing Business, with Kodak Agency; returns, present rate, exceed £2,600 per annum; net profit, £600; double-fronted shop, well fitted and fully stocked; long lease; further details on application.

—GLAMORGAN.—Old-established Business, with Wine and Spirit Licence; returns last year, £3,220, at good prices; house contains 10 large rooms, private entrance; 17 years' lease; no opposition; price to be arranged.

—SOUTH-EAST COAST.—General Retail Business, sadly neglected; in the hands of an energetic man could undoubtedly be increased; lock-up shop; new lease would be granted at a rental of £20 per annum; terms, value of stock and fixtures, from £300 to £400.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a periodical Statement of Account by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties and make Special Terms for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C. 4

BERDOE & FISH

Valuers and Transfer Agents,
35 Jewry Street, Fenchurch Street, E.C.3.
Telephone—1809 CENTRAL.

1. SOUTH COAST.—Cash Drug Stores for disposal, in splendid position of popular seaside resort. Returns between £20 and £30 weekly. Plenty of scope. Lock-up shop. Rent £55. Long lease granted. Price £900.

2. EASTERN COUNTY.—Genuine, mixed country retail, in good position, quite unopposed. Present returns £1,800, at full prices. Opening for photo. and optics. Good house and garden, etc. Well stocked. Owner retiring. Price about £1,200. Recommended.

3. LONDON SUBURB (S.E.)—Sound, middle-class cash business, in main road position. Returns £1,800. Kodak agency. Good house and garden; low rent, on lease. Well stocked shop, newly fitted. Price for prompt sale, £1,250 cash.

4. LONDON, E.C.—Small wholesale and druggists' sundriesmen business for disposal. Returns between £5,000 and £6,000, increasing. Expenses very low; ample accommodation. Price, £3,000. Anyone with spare capital could double the turnover.

BUSINESSES WANTED.

WANTED IMMEDIATELY, a good, sound business, in large town, capable of increase, with a turnover of at least £3,000 a year. Capital ready to invest up to £3,000 for suitable concern.

STOCKTAKING VALUATIONS.

We are now booking dates for September and October, and invite early applications to save disappointment. Terms sent on application.

ESTABLISHED 1870.

The Association of Mfg. Chemists

— LIMITED —

Head Offices—26-28 Kimberley House,
Holborn Viaduct, London, E.C.1.
(and at 2 Bixteth Street, Liverpool.)

PARKIN S. BOOTH, Accountant and Valuer.

PHONE: CITY 6942-43.

WE HAVE THE FOLLOWING BUSINESSES FOR DISPOSAL.

1.—LONDON, W.—Well appointed Chemist and Druggist's, established 50 years. Held on lease, 7 years to run, with option of renewal at £60 per annum. Well stocked. Low price for quick sale. Particulars on application.

2.—SOUTH WALES.—Two Large Chemist and Druggists' Shops, adjoining, for disposal. Exceptionally well fitted. Ready-money trade. Good stock kept. For disposal at valuation by the Trustee in Bankruptcy. Particulars on application.

3.—Well-known Proprietary Article For Sale, with connection among chemists. Can earn large profits. Exceptional opportunity for live firm with the necessary capital for advertising to increase their turnover.

4.—ERITH.—Drug Stores, in main thoroughfare. Held on weekly tenancy. Good accommodation and large garden. Business established 10 years. Full scope for qualified man. Price, all at £800. Particulars on application.

5.—SOUTH WALES.—Small, Well-fitted Pharmacy. All ready-money trade. Clean stock. For disposal at valuation by the Trustee in Bankruptcy. Good opportunity for energetic man. Full particulars on application.

6.—GLOUCESTERSHIRE.—Tablet-making Business, with opportunity for expansion, having no local opposition. Rent, £32 per annum, on a weekly tenancy. Price for goodwill and machinery, £250. Stock and book debts at valuation. Full particulars on application.

We have numerous clients seeking to purchase businesses in all parts of the country. We shall be glad to receive particulars from any chemist or druggist who may be desirous of disposing of his business, when we shall be glad to put our clients in touch with him.

Stocktaking and Valuations for all purposes undertaken upon Reasonable Terms.

BAKER & ROBERTS

P. C. Baker, Ph.C., M.P.S. W. Rooke Roberts, M.P.S., F.S.M.C.
174 VICTORIA ST., S.W.1. Tel.: VICTORIA 27

Valuers for Sale or Purchase, Income Tax, Probate, etc.

Personal attention, no publicity,
please write for moderate terms.

Recommended by The British Drug Houses, Messrs. Meggeson, Ltd., Messrs. Barclay & Sons, Ltd., and many other leading Wholesale Houses.

CHARLES C. MARSDEN

Valuer, Transfer Agent & Stocktaker,
44 Sholebrooke View, Chapelton Road, Leeds.
*Special Terms for Stocktaking and
Pricing-off Chemists' Stock Sheets,
Income Tax and Accountancy work.*

All Valuations have the personal attention of C. C. Marsden.

BRETT & CO

All Valuations have the personal attention of F. J. Brett, M.P.S.
Transfer Agents and Valuers

73 LAUREL ROAD, LEICESTER.

Telephone: 1934.

BUSINESSES WANTED.

ERNEST J. GEORGE

PLEASE BOOK EARLY

FOR

VALUATIONS

SEPTEMBER TO DECEMBER

BUSINESSES WANTED

138, Lichfield Street, Walsall

5 Oswald Street, Glasgow

We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell the businesses, an Advertisement in this Supplement, placed every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittance can be sent to us direct or through the advertiser correspondents in this country.

SALES BY AUCTION.

THE PHARMACY, MARDEN, KENT.—Detached Shop and Dwelling-House, 4 bed, 2 sitting rooms, kitchen, etc., with large and pleasant garden; gas and water laid on; main image. To be Sold by Auction at Maidstone (unless previously disposed of privately), together with the goodwill of the Business, on Thursday, September 21, at 3.15 p.m. Particulars of J. Parker, Auctioneer, Maidstone.

BUSINESSES FOR DISPOSAL.

for 50 words or less; 6d. for every additional 10 words or less, prepaid.

ADVERTISER may if preferred have replies addressed to this office, and forwarded on payment of an additional charge of 1/-.

ANCASHIRE.—Colliery district; old established; in present hands 35 years; good house and stock rooms attached; £90; average turnover £3,200, net profits good; present man retiring; thoroughly genuine; Optics and Wine Licence attached; price asked £2,250. Further information on application. 10/307, Office of this Paper.

ONDON, N.E.—Retail and Dispensing; average returns £1,884 per annum for last three years; average net profit 59; no N.H.I., but could be added with advantage; lease will be granted by seller; price £800 cash; no agents. Apply "S.," 37, Office of this Paper.

ONDON, S.W.—Well-fitted Shop in busy main road. Returns about £2,000; N.H.I.; new business, with great scope for reuse; price £900 for quick transfer. 54/19, Office of this paper.

ONDON, Western Suburb.—Old-established Chemist's Business for disposal; excellent position; double-fronted shop with living accommodation; recently redecorated; electric light; lease; low rent; exceptional opportunity for qualified and energetic man; price £900. Alfred Barnes, Ltd., 15, Montpelier Street, Knightsbridge, S.W.7.

CANCHESTER, near, in thickly-populated area, excellently fitted Chemist's Shop, well stocked, turnover over £2,500, under management; splendid house accommodation; own property; unique opportunity for practical man with capital; full particulars on application. 53/21, Office of this Paper.

IDLANDS.—Wholesale Manufactory, Proprietary Foods and Medicines; turnover £1,500-£2,000 per annum; rent £56; and four large workrooms; £1,000 cash; would consider Partner, invest £500 to £1,000; magnificent opportunity her way. 50/37, Office of this Paper.

ORTH OF SCOTLAND.—Good-going, old-established Business for Sale, owing to retirement of proprietor; splendid opportunity. Further particulars on application. No. 11/346, Office of this Paper.

OUTH YORKSHIRE.—Unopposed Country Business for Sale, established 1838. This year's average to August 31, £50 per week. Good shop, warehouse, etc.; splendid house attached; ge garden, greenhouse, garage, stable, poultry house, etc. for business and property, £2,250. Apply 55/10, Office of this Paper.

N opportunity occurs to purchase bold corner Drug Stores, main road, in rising W. suburb; established seven years, th Stationer's business attached; two shops and premises, suitable for wholesale or retail; increasing trade; lease 7 years; at £35; can let off flat 20s. per week; handsomely fitted; electric light; splendid condition throughout; price only £600; stock and fittings at valuation. 52/11, Office of this Paper.

HIMIST'S Business for Sale in Burnley; £1,000; splendid position and living; good opportunity for young man.—For particulars, apply J. W. Kneeshaw, Chartered Accountant, Burnley.

RUG Store, working-class district, London; established 35 years; proprietor recently deceased; profits about £10 per week at least; trade could be increased by qualified man; open every investigation; low price for quick sale. Sole Agents, P. W. Dawes & Co., 74/75, Cheapside, E.C.2.

RUG Store, London, S.W., main road; no near opposition; suit young qualified man; small living accommodation, £50. Apply, P. M. E., 54/11, Office of this Paper.

OR Sale, Manufacturing, Glass Bottle Making and Perfumery Business; good premises; large, light workrooms. 81, Cockley Street, Birmingham.

AGENCIES.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

LONDON Company desires to reach Chemists throughout Great Britain not less than ten times yearly with four quick selling lines at very keen prices. A Selling Agency with a sales force is invited to write in confidence to "Trade," P.C.B. 54/36, Office of this Paper.

A COMMISSION Agency.—Gentleman (30, Public School) representing a well-known proprietary house with established Chemists' connection throughout Yorkshire, Durham and Northumberland requires a really first-class Selling Agency on commission basis; excellent references. Apply "Ernest Willing," 49/31, Office of this Paper.

ADVERTISER, with office, show room and warehouse, invites inquiries from first-class proprietary house desiring keen service to augment present sales on a commission basis. Organised travelling staff covering the following territory: Lancashire, Yorkshire, Notts, Derby, Lincs., and four Northern Counties. At present representing two of the largest and best advertised lines in the trade. 54/23, Office of this Paper.

AGENTS, covering England and Wales, wanted for the sale of our world-famous Ballroom Floor Polish; liberal commission terms. Apply, stating ground covered, etc., to Lambert, Brien & Co. Ltd., 64, Grafton Street, Dublin.

SELLING Agents, with established connections, calling on Retail Chemists, Hairdressers, etc., wanted in all parts of the United Kingdom to sell first-class Patent Toilet Requisites much in demand, and good commission with exclusive district rights; state ground worked. Write "Blesko," Ltd., Melrose Cottage, Upper Hill Lane, Southampton.

BUSINESSES WANTED.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

SOUTHEND DISTRICT.—Advertiser requires Genuine, Good-class, Ready-money Business, with living accommodation; cash available £1,500, but smaller business, returning £1,000 to £1,500 entertained. Full particulars in confidence to "R.," 53/26, Office of this Paper.

ADVERTISER wishes to purchase immediately, South Coast preferred, a good, sound Chemist's Business or Drug Store; returns £1,000 per annum; must bear strict investigation; good living accommodation essential; cash available. Full particulars, in confidence, to "A. D.," 1, Highworth Villas, Liverpool Road, Worthing.

ADVERTISER urgently requires really sound Business, anywhere; preferably with good living accommodation, and is prepared to purchase outright himself, or introduce genuine, bona-fide buyers with cash available, £500 to £2,500, on low commission terms. Sales recently effected and completed 14 days; proof given; also banker's and other satisfactory references. Send particulars, Statim, 34 Cawdor Road, Fallowfield, Manchester.

GENTLEMAN with capital available desires to purchase a good, sound middle-class Chemist's Business; returns £2,500-£3,000 per year; must bear strict investigation; good living accommodation essential. Full particulars in first instance. "Podophyllin," 50/17, Office of this Paper.

PHARMACIST requires good-class Business immediately; must bear investigation; banker's reference; cash to £1,400. Full particulars, in strict confidence, to "R. C." 51/3, Office of this Paper.

PHARMACIST wishes to acquire small Business capable of increase under energetic management; living accommodation essential; South of England preferred; capital available £500. Reply "Questor," 52/13, Office of this Paper.

PHARMACIST, capital £500, desires to purchase small or neglected Business with scope for increase; living accommodation not necessary, but must bear investigation; management with view to succession entertained. Replies, in confidence, to "A. B. P." 52/9, Office of this Paper.

PHARMACIST requires sound Country Business immediately; preferably market town in Eastern or adjacent county, but not essential; living accommodation necessary; £800 cash down, balance (if any) by arrangement. Full particulars, in confidence, to 53/16, Office of this Paper.

PHARMACIST is open to purchase a good-class Business in Scotland, returning up to about £3,000. Details of shop, stock, fixtures, and approximate profits. Statim, 54/25, Office of this Paper.

PATENTS FOR DISPOSAL.

THE owners of British Patents Nos. 142,738 and 156,329, relating to the manufacture of Para-cymene, are desirous of entering into negotiations with one or more firms in Gt. Britain for the purpose of exploiting the above inventions, either by sale of the Patent Rights, or by the grant of a Licence or Licences to manufacture under royalty. Inquiries should be addressed to Messrs. Abel & Imray, Chartered Patent Agents, 30, Southampton Buildings, London, W.C.2.

PARTNERSHIPS.

PARTNERSHIP offered to hard-working man in prosperous London suburban Business, with big scope for increase. Capital required £475; must not be afraid of work. 54/191, Office of this Paper.

PHARMACIST, undeniably references, desires Managership in sound business, view to partnership or succession; cash ready, £1,100; balance, if any, by arrangement. 53/31, Office of this Paper.

FOR SALE.

COUNTER and Counter Run for Sale. Counter about 21 feet C and return, of old Spanish mahogany, soft wooden drawers at back; Counter Run fitting above (Mills, London, 1921), with glass fronts and tops, mirrored backs, five compartments; three units of glass shelves, brass supports above; all suitable for highest class Pharmacy; inspection. Hooper Struve, 7, Pall Mall East, London.

FOR Sale, a bargain, a National Cash Register; total adder; keys 3d. to £1 19s. 11½d.; coin exhibitor; excellent condition; bronze cabinet; No. 36; 353786; price £49. Scott, 49 Parkburst Road, Holloway.

20 GROSS Tooth Brushes, prophylactic shape, four-row transparent handles, 42s. gross taking whole parcel, 48s. one gross. 4, Churchill Road, Homerton, E.9.

SITUATIONS OPEN.

[HOME.]

RETAIL.

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

The ADVERTISER may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

BLACK COUNTRY.—Unqualified Assistant; must be a good Dispenser and Connterman; single. State age and salary required. 52/180, Office of this Paper.

COWES.—At once, young qualified Assistant (male) of good address, competent to take charge single-handed; state salary (moderate), but efficiency will be suitably rewarded; photo or interview; references necessary, but no testimonials.—Apply, "Chemist," 181, Northfields Avenue, West Ealing, W.13.

ESTBOURNE.—Qualified Manager required for modern good-class Store business; must be active, and a smart Counter-man and Window-dresser, with knowledge of Amateur Photographic trade. State age, height, experience and salary required in first letter to Lion Drug Stores, Ltd., 75, West Street, Brighton.

LONDON.—Required Assistant, gentleman or lady; must be accurate Dispenser (chiefly N.H.I.), and good, all-round worker; state particulars, age, experience, and salary required (moderate). Industrial district. 55/6, Office of this Paper.

LONDON, N.—Unqualified (male) Assistant, about 21 years; good-class Retail, Dispensing, and Photographic Business; permanency. Please state full particulars, enclosing graph, and salary required (indoors); letters unanswered three days respectfully declined. Anderson, Chemist, 6, End, N.8.

LONDON, N.W.—Wanted, immediately, unqualified Assistant, either sex; principally for window dressing; must be capable of putting in tasteful displays. Apply, giving full particulars of age, experience, and salary required. 53/11, Office of this Paper.

LONDON, S.E. (eight miles out).—Reliable and energetic Assistant, aged about 22-25, required as soon as possible for brisk retail and dispensing; excellent references essential. Kindly give full particulars of experience, salary, when engaged, etc., photo (loan) if possible, to Beale & Son, 3, th Street, South Norwood, S.E.

MALVERN.—Qualified Assistant with good Dispensing experience and accustomed to best-class business. Apply, stating full particulars, salary required (outdoors), etc., enclosing photo, if convenient, to A. Mander, Belle Vue Pharmacy, Malvern.

MANCHESTER DISTRICT.—Qualified male Assistant doors, aged about 30, required for good-class retail business; must have had good counter experience and be energetic. Apply, stating age, height, references and salary (enclose photo if convenient), to T. & W. Woodruff, Dispensing Chemists, Cheadle, Ches.

NANTWICH.—Wanted, smart unqualified Junior; good S man, Window-dresser and Dispenser; no photographic; 8.30 to 7.15; Wednesday half-holiday. State experience, and salary required to W. C. Grice, M.P.S., Pharmacy, Nantwich.

NORTHAMPTON.—Assistant, age from 26 to 30, for high-class Retail and Dispensing Business; must be smart S man, good window-dresser and have knowledge of photography. State age, experience, salary required and enclose references. P. Jeys & Co., Ltd., Northampton.

NOTTINGHAM.—Assistant of good appearance and address; must be experienced in Dispensing. State full particulars as to age, salary, and references in first letter. (Applications not answered in three days respectfully declined.) Mead, Sherwood, Nottingham.

PRINCESS ALICE MEMORIAL HOSPITAL, Eastbourne.—Dispenser, part time, required (male or female); live Application, with date of birth, qualifications, salary required and testimonials, should be sent to the Secretary at the Hospital.

SURREY.—Smart Assistant; age 22-25; male; must have good retail and dispensing experience and practical knowledge of photography. Apply, in first instance, stating salary 54/29, Office of this Paper.

ASSISTANT (unqualified), age 25-35, for London suburb; must be a keen Salesman, good Dispenser, and Window-dresser with experience in Photographic work. 11/350, Office of this Paper.

BANCH Manager required for London district; must be a keen and tactful Salesman, good Window-dresser, and have Photographic experience. To a man of character and ability advancement is certain. 11/349, Office of this Paper.

JUNIOR, about 18; indoors; no ladies; coast town; good personal character essential. "East," 50/38, Office of this Paper.

JUNIOR Assistant wanted for high-class Dispensing, Retail and Photographic business. Please state experience, salary, and send full personal particulars and recent photo Mr. Matthews, Chemist, Clifton, Bristol.

JUNIOR; age about 20; must have had first-class training to be a good Salesman. State age, height, experience, salary, required, photo if possible, when at liberty, with references. Mr. Austen, Messrs. G. T. W. Newsholme, Ltd., 27, High Street, Sheffield.

RETURNING PHOTOS, &c.

Advertisers in this section who receive portraits and copies of testimonials from applicants with a stamped addressed envelope for reply, are reminded that the undue retention of these often means a hardship to the sender. All personal documents should be returned as promptly as possible after perusal.

DY Assistant, with Minor qualification, for N.H.I.; Retail experience desirable; London; outdoors. Say when desired, salary required, details of experience; copies of testimonials, 53/5, Office of this Paper.

NAGER wanted for good-class Retail and Dispensing business in London suburb. Must be an energetic man, able to increase trade. Apply by letter, with full particulars, to J. J. Perrett, 90, Victoria Street, S.W.1.

DEBN Store Chemist for Tyne-side business, qualified, with first-class business experience; capable Salesman with enough knowledge of Photography and tasteful Windower. Full particulars, when disengaged, references, etc., to 16, Office of this Paper.

ALIFIED Manager for London; busy market; good opportunity for live man; £200 cash guarantee; salary and commission. Apply 47/34, Office of this Paper.

ALIFIED Assistant required (about middle of October), accustomed to high-class Retail and Dispensing business; a Junier with knowledge of Photography. Please state salary required, and particulars of previous experience. Views to be arranged. 51/7, Office of this Paper.

ALIFIED Assistant wanted shortly for new branch; age 26-30; good Salesman, and with good references. Please photo and particulars. "Kent," 54/32, Office of this Paper.

ALIFIED Assistant, with good general experience. Apply, stating salary required and full particulars, to S. J. Port, M.P.S., Glastonbury, Somerset.

ALIFIED lady Assistant, with good Counter and Photographic experience; hours, 8.30 to 7.30; no Sunday duty; Assistants. Apply, stating age, height, salary required, outdoors or indoors, references and experience, enclosing photo, 2, Office of this Paper.

ALIFIED Manager, single, required immediately. State age, salary required, and when at liberty. 52/181, Office of this Paper.

ALIFIED Manager for Tooting branch; outdoor; aged about 30. Previous managerial experience in working-class less essential. Must be good salesman, window-dresser, and expert photographic knowledge. Apply, giving full particulars and salary required, to C. B. Harrison, Chemist, East S.W.14.

ALIFIED Pharmacist required; good Dispenser and Counter Man; lady or gent. Applications not answered in 2 days respectfully declined. Rowcroft & Co., Ltd., 66 Week St, Maidstone.

ALIFIED Locum, about 30, September 25 for two weeks, with probable permanency later for suitable man. Brisk business, with N.H.I. Assistant kept. Highest references vital. Please state age, height, and remuneration required. 50, Office of this Paper.

ALIFIED Pharmacist and Optician wanted immediately, Liverpool district; comfortable berth, and good prospects. 1, Office of this Paper.

NQUALIFIED Assistant required, September 25, with good Dispensing and Photographic experience; outdoors; single; 8.30-7, Saturdays 8, Wednesday 1 o'clock; short alternate day duty. State full particulars of experience, with references and salary required, to Charles Gilling, Sunningdale, 18

NQUALIFIED Assistant; quick, accurate Dispenser and counterman, with good experience and knowledge of photography; easy hours; outdoors; 28 miles from London; fine entry. 54/27, Office of this Paper.

ANTED at once, for one month, Junior Assistant with good-class Dispensing experience; outdoors. Apply, with particulars, Pyman, Westgate-on-Sea.

ANTED, quick, accurate Dispenser; mainly N.H.I.; permanent. Reply, stating age, wage, experience, when engaged, etc., Nuttall, Chemist, 266, Great Western Street, Moss Manchester.

ANTED, elderly (or part-time, evenings) qualified Chemist; very light duties and short hours; must be trustworthy reliable. Replies giving salary required (moderate), and references, to Box 54/36, Office of this Paper.

WHOLESALE.

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

The ADVERTISEE may, if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

REPRESENTATIVE wanted for the Midlands by a well-known firm of Manufacturing Chemists, specialising in Pills and Tablets, etc. Applicant must have a general knowledge of the Retail trade, and give full information as to experience, territory covered, and lines carried. Apply 11/344, Office of this Paper.

BRISTOL.—Resident Representative required by established London house for Bristol and district, to work and extend existing connection among Chemists to sell Bulk and Packed Goods on commission. Full particulars as to territory, etc., in confidence. "Statim," 11/338, Office of this Paper.

SOUTH WALES AND WEST OF ENGLAND.—An opportunity occurs for an enterprising energetic Salesman, with a knowledge of medicine, to acquire the nucleus of a good connection as a paying side line. Apply, giving full particulars of experience, &c., 11/339, Office of this Paper.

VERNON POWELL, LTD., 7, Watling Street, E.C.4, require Representatives, with sound connection amongst Chemists and Stores, to sell Combs, Powder Puffs, and Toilet Articles. Applications treated with confidence.

A N old-established firm of Wholesale Druggists in Lancashire, doing a Doctor's business, have vacancies for Travellers in the following districts: Midlands, S. Wales, and N.E. England. Applicants must be first-class men with established connections amongst the medical profession for Drugs and Specialities. All applications will be treated in confidence, and must give full particulars of age, previous experience, ground covered, and salary, etc., required. Apply in first instance to 11/342, Office of this Paper.

BELGIAN Manufacturer of Absorbent Cotton Wool wishes to get in touch with representative, well introduced, visiting wholesale dealers in pharmaceutical goods, for sale of other products. 11/347, Office of this Paper.

REPRESENTATIVE wanted for Glasgow and district with connection amongst Chemists and Hairdressers for Combs, Soothers, Surgical Rubber Goods, and Fancy Goods. Reply, enclosing references, experience, age, and remuneration, 11/341, Office of this Paper.

REPRESENTATIVES wanted to carry as an additional line our full series of Compressed Tablets, Photographic and Packed Goods; liberal commission. Districts available: South-West Coast and Brighton, East Coast, Liverpool and district. Apply White Band Mfg. Co., Ltd., Croydon.

REPRESENTATIVES wanted for all parts of England, Scotland and Wales, on good commission basis, to further the sale of high-class Medicated Goods, in bulk and packed. Applicants must have good, reliable connection and be first-class Salesmen. No others need apply. Give fullest particulars in strict confidence. Apply 10/315, Office of this Paper.

REPRESENTATIVE required for Eastern Counties to sell high-class Medicated Products. Commission basis. Applicants must have live connection and be capable of pushing sales. Replies will be treated in strict confidence, and must give details as to ground covered and lines carried. 11/340, Office of this Paper.

REPRESENTATIVES calling Chemists and Stores in all districts required for the sale of Lactabell Sterilizers, easy seller, non-competitive, liberal commission. Only first-class salesmen with good connections need apply by letter. Lactabells, 43/46, Southampton Buildings, W.C.2.

REPRESENTATIVES required, on commission basis, for town and country, calling upon Chemists and Doctors, to sell bottles, etc.; good side line. Apply by letter, 11/345, Office of this Paper.

SHORTHAND-TYPIST (Junior) required for City Wholesale Druggist. Apply, by letter, giving full particulars and salary required, to 11/348, Office of this Paper.

TRAVELLER required by London house of Druggists' Sundries men for South Wales, Somerset, Devon, and Cornwall; commission basis; must have good connection amongst Chemists and Hairdressers. Write, stating full particulars, to P.C.B., 55/5, Office of this Paper.

TWO Travellers wanted; Kent district and Surrey-Sussex district; whole-time service; small salary; commission good; payment by results; no expenses; fidelity bond needed; to call on Grocers, Ironmongers, Garages, Chemists, etc. Apply, giving age, experience, qualifications and references, Fitch, Ltd., Tamworth.

WANTED, smart commission Representatives for Glues and Glue Powders; sole representation given for specified districts. Reply, 11 343, Office of this Paper.

WANTED, Travellers calling on Chemists to offer a first-class Table Water, on liberal commission only. Reply, The Martin Drng Co., Ltd., 106, Aldborough Road, Seven Kings, Ilford.

WANTED, two smart Pioneer Travellers for Midlands and South Wales respectively to introduce a well-advertised line to Chemists; splendid line; brings its own repeats; salary and commission; must be men who can command business. 52/18, Office of this Paper.

WANTED, Representation in London; would consider amalgamation wth firms either in the wholesale or commanding retail, under mutual arrangements. Packed goods, proprietaries, etc. State full particulars in confidence to 52/32, Office of this Paper.

WANTED, Traveller, one with good connection, calling upon Chemists and Opticians; commission basis; only. P. C. B., 56/5, Office of this Paper.

WANTED, Travellers with live connection amongst Retail Chemists in Lancashire, Yorkshire, Midlands, South Wales, and Scotland, to carry Chemists' Sundries at competitive prices; part time not objected to providing goods do not clash. Capable men liberally treated. Full particulars as to ground covered and experience, to Manchester, 54/23, Office of this Paper.

20 PER CENT. commission, exclusive and competitive; Powder Puffs; excellent side line for gentleman with live and extensive connection amongst the buyers, chemists, perfumers, and stores. Provincial territories open; preference will be given to gentleman with experience in selling puffs. 54/22, Office of this Paper.

[Colonial, Indian and Foreign.]

CHINA.—£400 a year (approx.).—Qualified Assistant required for large business. Applicants should be between 25 and 30 years of age, single, and preferably Scotch. Four years' agreement. Passage paid out and home. Apply, "China," 54/17, Office of this Paper.

PARIS.—Representatives for British Isles required by firm in Paris manufacturing extensive range competitive Toilet Soaps and Perfumery; liberal commission basis; non-competing lines not objected to. Send, in confidence, references and full particulars to General Manager, 12, Marine Parade, Folkestone.

A PHARMACEUTICAL House with an established branch in India has vacancies for travelling Representatives for service in that country. Apply, 11 337, Office of this Paper.

SITUATIONS WANTED.

[HOME.]

RETAIL.

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid.

A.A.—CHEMIST; qualified; 18 years' London experience, all branches; Saturday afternoons and evenings. M.S., 112, Kentish Town Road, London, N.W.

A COMPETENT Pharmacist, 29, desires post as Manager or Assistant in East Anglia; excellent references. 52/7, Office of this Paper.

A COMPETENT Pharmacist; 34; Locum registered R.P.U.; disengaged September 12; or permanent. D. S. S., 27, Sundew Avenue, Wormholt Estate, Shepherd's Bush, W.12.

A DENTIST and Pharmacist, elderly, active, desires engagement, Branch Superintendent or Senior; sound experience and thoroughly reliable; married, no family; moderate salary. "Dental," 59, Primrose Avenue, Haslington, Crewe.

A QUALIFIED Chemist, London and provincial experience, excellent references, disengaged, desires engagement. Davies, 62, Fentiman Road, London, S.W.8.

A QUALIFIED Chemist; disengaged 14th inst.; permanent or locum; fully experienced and capable; London and provincial. "Parex," c/o Mr. Walton, Chemist, Needham Market, Suffolk.

A N elderly qualified Chemist desires employment; short hours or part time; country preferred. Baker, 81, Edgar Road, Reading.

As Locum or Manager; disengaged September 10; qualified. Dobie, 11, Grove Street, Bath.

As Locum; qualified; age 40; experienced all branches; expert in card index systems. Advice given on modernising businesses. Stocks can be valued while acting as Locum at inclusive fee. Disengaged Sept. 6th through postponement. Would act as Locum or Manager, with view to purchase "U.S.A." 55/5, Office of this Paper.

As Manager or Senior; London; 38; experienced, tall, gentlemanly, willing and conscientious; excellent references; can commence immediately. "Pharmacist," 42 Oxford Avenue, Fulham, S.W.6.

A SSISTANT, 37, married; educated Willesden Grammar School; experienced in Dental work. M. L. 15521, Office of this Paper.

A SSISTANT (unqualified), married, 32, capable; 15 years' first-class experience; excellent references. Chemist, 8, Narvon Road, Leyton, E.10.

A SSISTANT, 20, tall, excellent all-round experience, Photography, 5 years West-End, desires situation, London suburbs; disengaged. "R. E. F.", 24, Elthorne Park Road, Hanwell, W.7.

A SSISTANT, unqualified; thoroughly capable; 6 years' experience; disengaged September 23; any district, but Manchester preferred.—"Reg.," 240, Ayres Road, Manchester.

A SSISTANT or Manager, Lancashire (28); qualified; experienced Photographic and all branches. Sunderland, Keighley Road, Colne.

A SSISTANT (Qualified); accustomed to good class Dispensing. Photographic experience; height 5ft. 9in., age 23. C. 4, Albert Road, Bexhill-on-Sea.

A SSISTANT, unqualified (London or country); 22 years' all-round experience; single. "Chemicus," 48, Balham Road, Balham, S.W.

A SSISTANT; 15 years' London experience; abstainer; No London preferred; disengaged September 16. Fall, Rathcoole Parade, Hornsey.

A SSISTANT, 27; unqualified; good experience; energetic, moderate salary; Birmingham or district preferred, not essential. 53/3, Office of this Paper.

A SSISTANT, 24; high-class Dispensing and Counter only; engaged September 28. Roberts, 11, Ranelagh Road, Weymouth.

A SSISTANT; unqualified; 20 years' good experience; Wind Dressing, Photo, quick Counter, seeks situation. Ash, Lydford Road, Paddington, W.9.

A SSISTANT (Lady), 21; able Dispenser; 4 years' West-Ealing experience. E. H., 58, Broadway, West Ealing.

A SSISTANT; unqualified; experienced in all branches; engaged October 1; S.W. preferred. Reply, "Aspirin," Tremadoc Road, Clapham, S.W.

A SSISTANT, 23; unqualified; 7 years' experience, Counter Dispensing; London preferred; disengaged. Smith, 1 Rectory Lane, Tooting, S.W.17.

A SSISTANT, unqualified, tall, gentlemanly, good Dispenser, knowledge Photography, requires berth in good class business; no Sunday or holiday duty; salary not over £25; Midlands or North preferred, not essential. Dundas, Lansdowne Gardens, Stockwell, S.W.8.

A SSISTANT; unqualified (34); up-to-date keen Counter and Window-dresser; experienced all branches, Photography; 8 years' last two situations; has had control; manage Drug Stores; disengaged. "A. W.," 9, Penfold Street, Myatt's Park, Camberwell.

INSTANT, 27; unqualified; 6 years' all-round experience; disengaged. "G. B." 14, Sebright Avenue, London Road, star.

INSTANT, 20; 4½ years' experience; capable Dispenser, Counterman, Window-dresser and Photographer; 6 months' class Bath experience; Lancashire preferred. W. Wilkins, 7, Junction Road, Bath.

INSTANT, 23, qualified, desires post; permanency or cum; disengaged September 18; references. "G." inst., 12, York Place, Barry, Glam.

INSTANT, reliable, with thorough knowledge of all departments, requires position with Wholesale firm, Leicester, Nottingham, London, or North. 54/31, Office of this Paper.

INSTANT Dispenser, lady (Hall), recently qualified, seeks post. 54/3, Office of this Paper.

INSTANT (unqualified), 28; tall; 13 years' varied experience in dispensing, quick counter, photography, etc. state salary. "Hexamine," 54/16, Office of this Paper.

NARVONSHIRE.—Lady Assistant, 19, 4 years' London experience in dispensing, window-dressing, and photo requires Situation in the above county. "Assistant," Past Hill, Wandsworth, S.W.18.

EMIST'S Assistant, 27; educated Bishop Stortford College; war service, 4 years. M. L., 50785, Office of this Paper.

ENGAGED.—Dispensing, Counter, Stock; honest hard worker; good London experience; 45; no salary first week, £ards, if satisfied, 50s.; trial wanted; unqualified. 55/8, of this Paper.

PENSER, 40, married; war service, 4 years; experience as Dispenser; trained Male Nurse and Operating Room Attendant. M. L., 3421/22, Office of this Paper.

PENSER, lady, 21, Hall qualified, 1½ years' experience, desires post; whole or part time. 51/8, Office of this Paper.

PENSER (Hall), City and West-End experience, desires post; knowledge of book-keeping.—Miss Hall, 9, Gainsborough Road, Chiswick.

PENSER or Locum; high-class West-End and Hospital experience; disengaged. "Dispenser," 2, Dove Street, stoff.

PENSER'S Assistant, 26, married; educated L.C.C. School of Pharmacy; war service, 2½ years; Drug Stores experience. 48877, Office of this Paper.

ERIENCED Pharmacist, 29, married, desires change to permanent and progressive post in provinces as Senior or ger; capable taking charge; properly indentured and e trained; Counter, Windows, Photography and Dispensing. "Clovelly," Russell Road, Ipswich.

IOR (20); 5 years' good all-round experience Dispensing, Counter, Photography, and Window-dressing; excellent nces; disengaged shortly. P.C.B., 55/19, Office of this

IOR, well educated, seeks position in good-class London business; Dispensing, Counter, Photography; out or indoors. "Mercurius," 52/27, Office of this Paper.

IOR, just completed apprenticeship, wishes to improve; 4 years' all-round experience; Dispensing, Counter, Photography; Midlands preferred. 53/1, Office of this Paper.

IOR (unqualified), excellent experience and references, desires permanency (temporary post considered); reasonable Apply 53/28, Office of this Paper.

IOR Assistant, 21, disengaged, good all-round experience, desires permanency; Bristol preferred; moderate salary; references. 54/2, Office of this Paper.

Y Dispenser, Book-keeper (Hall), requires post. Apply "A. M. B." 156, Ewell Road, Sunbury. (Incorrectly given week as "Sutton.")

Y Dispenser-Book-keeper (Hall) requires post with Doctor; several years' experience. "O." 39, Radnor Road, Harrow, Essex.

Y Dispenser and Assistant requires post in London; Hall qualification; 6 years' West-End chemist's experience. A. Hoard, 156, Elgin Avenue, W.9.

Y Dispenser (Hall) requires post with Doctor or Institution; book-keeping; good testimonials; town or country. Bayfair Avenue, Ilford, Essex.

Y desires post with qualified lady Chemist, or married gentleman chemist, with view to Partnership; capital £500. of Ward's Drng Stores, 73, Prince of Wales Road, N.W.5.

LADY Dispenser, Book-keeper, desires post with Doctor; 4 years' experience; East or South preferred. Apply 53/33, Office of this Paper.

LADY (Minor), experienced Dispenser, wishes post with Retail experience. 53/39, Office of this Paper.

LIVERPOOL or District.—Assistant or manage branch; good experience; abstainer; salary 40s. per week; ref. (unqualified). "Bromide," 1, Lowwood Grove, Birkenhead.

LOCUM or permanency; qualified; good all-round experience and references. "W. S." 163, Eswyn Road, Tooting, S.W.

LOCUM; disengaged September 18; good references; permanency entertained. M.P.S., 18, Gloucester Road, Camden Town, N.W.1.

LOCUM or otherwise; unqualified; energetic and highly recommended, disengaged. C., 39, St. Thomas Road, Finsbury Park, N.

LOCUM or permanency; 34; qualified; 17 years' all-round experience; used to working single-handed; assistant or manager. Jamieson, 39, Pepys Road, New Cross, S.E.14.

LOCUM or permanency; experienced; competent all branches; disengaged; 42; unregistered; highest references. 135, Queen Street, Newton Heath, Manchester.

LOCUM; disengaged; highest references; entire charge; satisfaction guaranteed; moderate; London or provinces. "Chemicus," c/o 13, Harewood Terrace, Thornaby-on-Tees.

LOCUM; qualified; experienced; disengaged September 23 to 30; terms moderate. "Chemist," 100a, Bellenden Road, Peckham.

LOCUM; qualified; disengaged 18th inst.; excellent references. Summers, 98, Greyhound Lane, Streatham Common, S.W.

LOCUM; London or provinces; qualified; wide experience; capable (40); disengaged September 16. Apply 53/37, Office of this Paper.

M.P.S., F.S.M.C., D.B., Q.A., etc., requires responsible position with genuine firm; young, energetic; all-round experience and highest references; willing to open up Optical department; large town preferred. 54/30, Office of this Paper.

MANAGER, Assistant, or Traveller; 22; educated Brighton Grammar School; qualified; war service. M. L., 11038, Office of this Paper.

MANAGER or Senior Assistant; qualified; permanent or locum; 13 years' experience every class and branch of Pharmacy; highest references. Please state salary. Rankin, Midsomer Norton, near Bath.

MANAGER, 30, qualified, married, desires permanency; sound business man, practical Optician, Window-dresser, Photographer, Dispenser; excellent references; disengaged October 7. Please state full particulars and salary offered. 54/38, Office of this Paper.

MANAGING Assistant or Branch Manager; good Prescriber, thorough knowledge Photography, some Optics; excellent references; age 35; unqualified. "Bellad," 1, Royal Road, Ramsgate.

PART-TIME; Doctor's daughter (Hall); 5 years' experience, Dispensing; seeks post afternoons or evenings. "J." 29, Warwick Road, Ealing.

PART-TIME.—Qualified, 32, good Dispenser, Counterman, and Window-dresser, requires part-time situation, London; mornings, afternoons, or evenings to suit; could take charge when necessary; experience, West-End, suburbs, and provinces. Write, 50/21, Office of this Paper.

PART-TIME or Locums wanted by woman Dispenser (Apoth. Hall); 7 years' experience with Chemists and Doctors; Dispensing, Book-keeping, N.H.I., etc.; good refs.; London. P.C.B., 55/33, Office of this Paper.

PHARMACIST desires Locum or Managership, London; high-class experience; prize Window-dresser; up-to-date methods. "A1," 49/2, Office of this Paper.

PHARMACY (Retail), 26, married; 4 years' war service; educated Grammar School, Cambridge; languages, French, German, Latin; fully trained in Pharmacy; taking qualifying exams. M. L., 2360/22, Office of this Paper.

QUALIFIED Chemist, disengaged September 18, open to engagement; excellent references. Chemist, 74, Hamilton Road, Golders Green, N.W.11.

QUALIFIED (Assistant), 31; abstainer; tall; good-class all-round; London and provincial experience; references; interview. Reply 52/20, Office of this Paper.

QUALIFIED Manager or Locum; disengaged September 2; 5 ft. 8 in.; widower; no encumbrance; 20 years' experience; permanency desired; London or provinces. B. Kilvert, 37, Islip Street, Kentish Town, London.

QUALIFIED, 22; high-class Retail experience; smart Saleswoman, Window-dressing, etc.; College training. Miss Wellman, 18, Harrington Villas, Brighton.

QUALIFIED, 26, requires situation in Birmingham or near, about September 30. A. H., 17, High Street, Weston-super-Mare.

QUALIFIED; middle-aged; gentlemanly; Locum or Manager; thoroughly good all-round experience; satisfactory references; disengaged. "Idem," 51, Somerleyton Road, Brixton, S.W.

QUALIFIED; 32; experienced; Optics; Tuesday Wednesday, Thursday, 1 to 6 p.m. off. Cornea, 89 Clapham Road.

QUALIFIED, up-to-date Chemist desires berth, Manager or Senior; excellent all-round experience in all branches; 10 years last engagement. "A. B.," 105, Effingham Road, Harrow, N.8.

QUALIFIED Dispenser, disengaged September 30, requires engagement in Pharmacy, Surgery, Hospital, or N.H.I. "M.," 1, Vicars Hill, Lewisham, S.E.

TEMPORARY position or Locum required by young, energetic qualified man, abstainer, with good West-End, suburban and Locum experience; free September 18 to October 7. "L.," 46, Compton Road, London, N.21.

UNQUALIFIED; married; 37; 10 years present situation; good knowledge of Retail, Dispensing, Prescribing and Photographic; permanency required. "Reliable," 55/12, Office of this Paper.

WELSH Assistant, 23; 18 months' war service; educated College School, Wales. M. L., 42050, Office of this Paper.

20; disengaged October 16, on completing 3 years' apprenticeship in high-class West-end business; competent to take on any branch of work the Pharmacy demands; French, German and Typewriting; good knowledge of Wholesale and Retail Prices. L. B., 75 Burnt Ash Hill, Lee, S.E.12.

WHOLESALE.

ADVERTISER desires a post in October as Secretary, Under-Secretary or Accountant to a progressive firm of Chemists or Sundriesmen; has a thorough knowledge of the trade, and is a completely qualified Company Secretary (by exam.), capable of taking absolute command of entire office, including the accountancy department; age 31, and can produce undeniable references. 52/33, Office of this Paper.

ADVERTISER, doing a steady turnover of £7,000 per annum, seeks connection with an established house, Drugs, Sundries, Toilets and Perfumery. "Salexper," 51/90, Office of this Paper.

ADVERTISER, aged 40, thorough knowledge Chemist's Sundries, Surgical Instruments, Perfumery and Photographics, with good travelling experience, seeks responsible permanent position indoors, or as Representative; London only. "Ernest," 63/25, Office of this Paper.

AS Representative, first-class house; disengaged; qualified Chemist; connections, Welsh ground. "Slinn," 7, Regent Street, Upper Bangor, N.W.

CHEMIST, 24, University training, some experience of office routine, desires Technical or Clerical post. "M. L.," 28/767, Office of this Paper.

IAM open to a decent offer; 5 years' tip-top apprenticeship; experienced retail, wholesale, manufacturing; expert checker; good, sound, hard worker; charge of medical stores during war. Johns, 7, Elm Tree Road, N.W.8.

LIVE Representative wishes to represent a reliable firm, London and South; own car. 54/190, Office of this Paper.

Ph.C. (31), present Retail Manager, desires post with old-established Wholesalers, giving opportunity for promotion. 50/27, Office of this Paper.

PILL and Tablet Coater seeks engagement; used to all kinds of coating; 9 years' experience; age 26; single. G. Tugwell, 53, Rutland Road, Hove.

REPRESENTATIVE.—Captain, age 29, married, sound knowledge chemicals and Chemist's sundries, with connection in Eastern Counties, desires post as above. M. L., 1991-22, Office of this Paper.

REPRESENTATIVE, at present with old-established toilet manufacturing house, and having a valuable connection amongst Pharmacists in Scotland, Northumberland, and Durham, open to represent reliable house; excellent references; free November 1. 50/39, Office of this Paper.

REPRESENTATIVE, just concluded 5 years' engagement with leading Drug, etc., house, first-class and extensive provincial connection, open to represent reliable house; qualified Chemist; excellent record and references. 54/24, Office of this Paper.

THE production, manufacture, and sales of all Toilet, Soap and Perfumery lines are comprised in the experience of advertiser, who seeks a position where ripe experience and enthusiastic energy would produce a good income. "Providor," 51/9, Office of this Paper.

TO Tablet Manufacturers.—A thorough all-round man, steed ambitious; age 31; desires post with firm where there good prospects. James, 90, Villa Street, Walworth, S.E.

TRAVELLER, London connection, splendid references guaranteed, desires Representation; whole or divided attention "Chomist," 55, Antill Road, Bow, E.3.

WAREHOUSEMAN or Stock-keeper; long experience Dr. Surgical, Sundries, Toilet, etc.; used to controlling "Rex," 37, Brunswick Road, N.16.

[Colonial, Indian and Foreign.]

SOUTH FRANCE, etc.—Qualified Chemist, 49, first-class experience, with knowledge of French and German, desires sea engagement. "Pharmacist," 54/13, Office of this Paper.

ASSISTANT or Representative, 46, single; educated privately can speak Dutch; travelling representative in South Africa connection Cape Town to Zambezi, recently with Society Apothecaries. M. L., 3378/22, Office of this Paper.

MISCELLANEOUS.

10s. for 60 words; **1s.** for every additional 10 words or part thereof.

SECOND-HAND CHEMISTS' FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right and goods are in first-class condition; we shall be pleased supply particulars and prices. Call or write, RUDDUCK & CO., 262, Old Street, London, E.C.1.

SHOP Fittings, for the Summer Trade, silent Salesman Cashier, Glass Counter, Camera Cases, etc. All repay their quickly. PHILIP JOSEPHS & SONS, LTD., Shop Fitters, Old Street, London, E.C.1.

FOR Sale, freshly-pressed Lemon Juice; can be railed same day as pressed. Apply John F. Crookall, Produce Merchant, 15, Stanley Street, Liverpool.

LIMITED COMPANY FORMATION.—Before placing your Company in other hands, get my quotation. I specialise in Chemist and tradesmen private companies and quote inclusive charge; no extras. A. B. Slack, 180, Garston Old Road, Liverpool.

SPESIAL Offer.—Three tons finest quality Composite Essence. In any quantity required. Free on rail, 1s. 4d. per lb. Sample on application. T. Prond, 6, Hu Terrace, Darlington.

STAMPS.—Are you a collector? approvals sought at $\frac{1}{2}$ to $\frac{1}{4}$ catalogue for used and $\frac{1}{2}$ for mint. I can supply collections of any country, or general collections from 100 to 10,000 varieties. Why not a trial? W. Jarvis, Pharmacist, 126, Stephendale Road, Fulham, S.W.6.

EXCHANGE COLUMN.

2d. per word: Minimum 2s.

FOR DISPOSAL.

AVERY'S Chemist's Brass Counter Scales and Weights, $\frac{1}{2}$ oz. 2 lbs., £3 10s. Templar Malins, Ltd., 51, Queen Street, Cardiff.

MARTINDALE'S EXTRA PHARMACEPIA. 1 and 2 editions, new, 25s., or nearest. D., 13, Southwark Road, London, N.8.

WANTED.

PHARMACEUTICAL Books wanted; send priced list. George Bookseller, 41, Voltaire Road, Clapham.

COPY of "The Lancet" for January 7, 1922. W. Lieut.-Colonel Salter, 101, Queen Victoria Street, E.C.4.

RADIUM SALT, pure or Residues, old Applicators, etc. Ap Harrison Glew, Radium Laboratories, 156 Clapham Road, S.W.9.

STEAM PAN, enamelled iron, 25 to 30 gallons; must be good condition. Give full details. 54/12, Office of Paper.

LIQUOZONE PREPARATIONS, Liquozone, also Ointment & Soap. Send particulars of quantities and prices. McGuff & Co., 10, Castle Street, Liverpool.

FEEDING BOTTLES.—Wanted, old style, narrow neck end, hole centre for B.W. cork; state lowest price; must suit small teat; not boat-shape feeder. 52/31, Office of this Paper.



3
of our
attractive
packs for
Capsicum
Wool.



4/6 DOZ.
in gross lots
for the
1/- size.

7/3 DOZ.
in gross lots
for the
1/9 size.

Capsicum Wool Profits again Increased.

LAST Winter Capsicum Wool was one of our best sellers. This Winter we want to beat the high-water mark of last year. In order to make the proposition more attractive than ever we have reduced the wholesale price as above.

You will agree, we are sure, that the profit which our Capsicum Wool now shews is remarkably good and at the same time you are selling a good article at a fair competitive price.

This wool is of a superior quality, very strongly impregnated with both Capsicum and Methyl Salicylate, covered with fine gauze. The distinctive get-up of the several styles of pack we offer make the line all the more attractive.

LONDON:
37 Red Lion St.,
High Holborn.
Telephone:
Chancery 7416.

W.B.CARTH WRIGHT LTD.
RAWDON
Australia
297-299 CASTLEREAGH ST SYDNEY
320, FLINDERS LANE, MELBOURNE
NEAR BRAND
LEEDS
New Zealand
181 HEREFORD ST CHRISTCHURCH,
CORNER ALBERT & DURHAM ST AUCKLAND

GLASGOW:
Bath Chambers,
65 Bath Street.
Telephone:
Douglas 459.



THE BRITISH DRUG HOUSES LTD.

WE have recently made additions to our manufacturing plant, which is of the most modern type and able to meet all demands for

EXTRACT OF MALT Plain or with COD LIVER OIL



One of our THIRTEEN distinctive styles of "own name" packing.

Our product will be found unsurpassed for
Quality,
Flavour
and
Keeping
Properties.

Reduced Prices.

Sold in bulk, or packed ready for retail in amber jars (round or oval); also in containers for N.H.I. purposes.

WRITE FOR QUOTATIONS FOR THE SEASON

22-30, Graham Street, City Road,
LONDON, N.I.